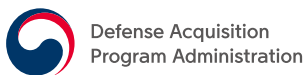
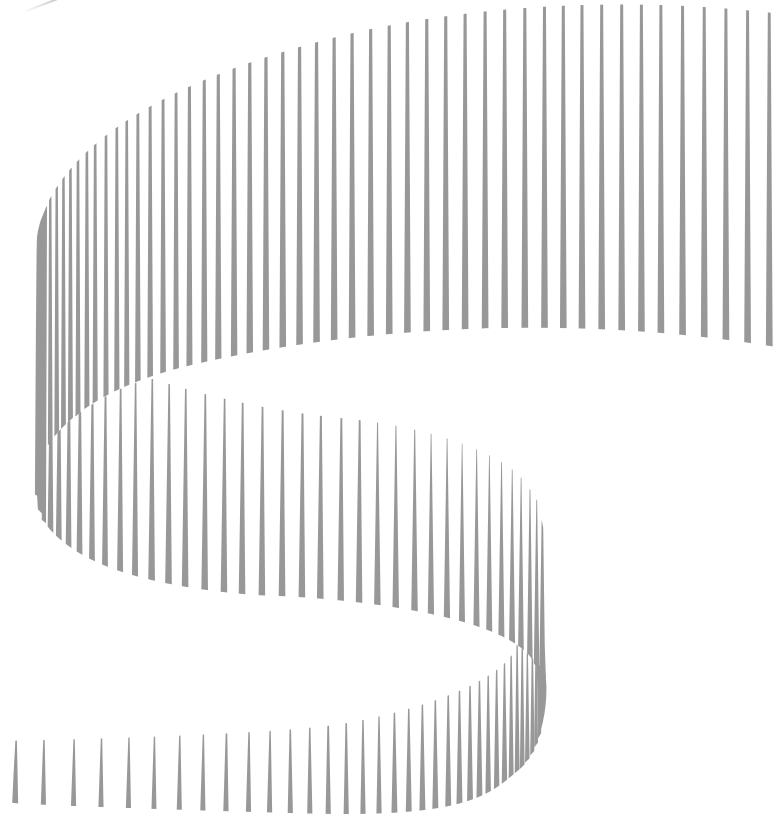


2024

DQ CERTIFIED PRODUCTS

The Best Korean Defense Products



2024



DQ CERTIFIED
PRODUCTS

Current Status of DQ-certified Prime products · Manufacturers

No.	Manufacturer	Certified products	item	notes
1	KYUNG IL GMC	Cylinder Head for M48 Tank	1	
2	Yeonhab Precision	Intercommunication set, Handset, Speaker, Cable assembly	4	
3	HKC	Combat Vehicle Crew (CVC) helmet, Portable radiac set	2	
4	Korea CNO Tech	Training hand grenades, 40mm training ammunitions	5	
5	STX Engine	Coastal Surveillance Radar (GPS-800K)	1	
6	SONARTECH	Underwater Search Sonar (5845-37-521-5865)	1	
7	YOUNGPOONG ELECTRONICS	Integrated Standby Instrument (ISI)	1	
8	Bumhan Industries	Medium Pressure Air Compressor (LT-104H)	1	
9	Finished Solution	Cryogenic Cooler (CR-403K), Cryogenic Cooler (CR-405K)	2	
10	AMS	Sight Alignment Device (KA10, KA11, KA20)	3	Not listed
11	Farymann & Tzen	Auxiliary Engine (615 29005)	1	
12	YGT	Air Conditioning System for Chunmoo (YGT-UA20038001)	2	
13	KOVICO	4x4 Wheeled Armored Vehicle (KMPV)	1	
14	TECHNO Y. SYSTEM	5.56mm Cleaning Kit (TY-KIT-001), 7.62mm Cleaning Kit (TY-KIT-002)	2	
15	FIRSTEC	Automatic Fire / Explosion Suppression System	1	
16	FINE PRECISION	Windshield Washer Assembly for Aircraft, Wiper Converter Assembly, Reservoir Assembly for Windshield Washer, Wiper Arm	5	
17	Treksta	Functional Combat Boots (98430 37 X03 8247)	1	
18	Soosung Defense Industries	Automatic Bore Cleaner for Smooth Bore (SB-120), Automatic Bore Cleaner for Rifled Bore (RB-76, RB-105, RB-155)	4	
19	LIG Nex1	Loading Guided Missile, Launch Equipment	2	Not listed
20	SENSORPIA	Low Drift 3-Axis Magnetometer, Low Noise Low Drift Magnetometer	2	
21	Eosystem	Monocular Night Vision Scope (NVS)	1	
22	Hanwha Systems	Mine Detection Set	2	
23	Sunkyung Industry	Food tray sterilizing dryer, Shoes sterilizer	2	
24	Bosung Industry	Waterjet Propulsion System	1	
25	Daedong ENG	Multi-Bucket for Mine Removal (DMB30)	1	
26	Korea Special Battery	209-Class Jangbogo-I Submarine Battery	1	
27	Daesung Tech	Bulletproof helmet	1	
28	BAROTECH SYNERGY	Vulcan Engagement Simulator	1	
29	Dongin Optical	12.7mm Heavy Machine Gun Sight DCL120, 40mm Automatic Grenade Launcher Sight DCL401, 7.62mm General Purpose Machine Gun Sight DCL100M, 5.56mm Light Machine Gun Sight DCL100S	4	
30	YOUNG AN CHEMICAL	Chemical Protective Overboots, Chemical Protective Glove Set	2	
31	Korea Aerospace Industries	Multi-Role Fighter (FA-50)	1	
32	SUHHAN Industries	Filter Assembly, Oil Filter Assembly, Component Kit for Fluid Pressure Filter, Filter Parts Kit	4	
33	DAE MYUNG	Parachute for Airdrop (MC1-1C), Reserve Parachute (T-10R)	2	
34	Samyung ENC	HF communications system	1	
35	EHWA Technologies Information	Frequency Converter (CR154-30)	1	
36	U2SR	Thermal Imaging Surveillance Equipment (Hawkeye V6)	1	Not listed
37	Defence Korea	Recoilless Water Cannon (KD-101)	1	
38	SW paper	Rounded paper case for storing bullets 81mm	1	



DQ-certification Authority : Defense Agency for Technology and Quality

As a global research center,
it specializes the quality assurance of defense products.

- Guarantees the quality of Korean defense Prime products for domestic and foreign clients
 - Concluded the MOU on the quality assurance with U.S.A and other 23 countries
- It guarantees and certifies the reliability and performance of military products.



DQ Mark Certification

The government duly certifies the quality of excellent products in the defense field to reinforce the export competitiveness of defense industry products (conducted by the Defense Agency for Technology and Quality)



Target Companies

Companies intending to export munitions



Target Products

Defense materials produced by domestic companies to export as well as munitions modified and developed for export purposes (finished products, parts, etc.)



Excluded Items

- Items with major defects within the last 2 years
- Items of which all and key parts are imported
- Items to export after purchasing



How to Apply for Certification

Fill out the application form of DQ Mark Certification and submit it to the Director of the Defense Agency for Technology and Quality (permanently available)



Use of DQ Mark

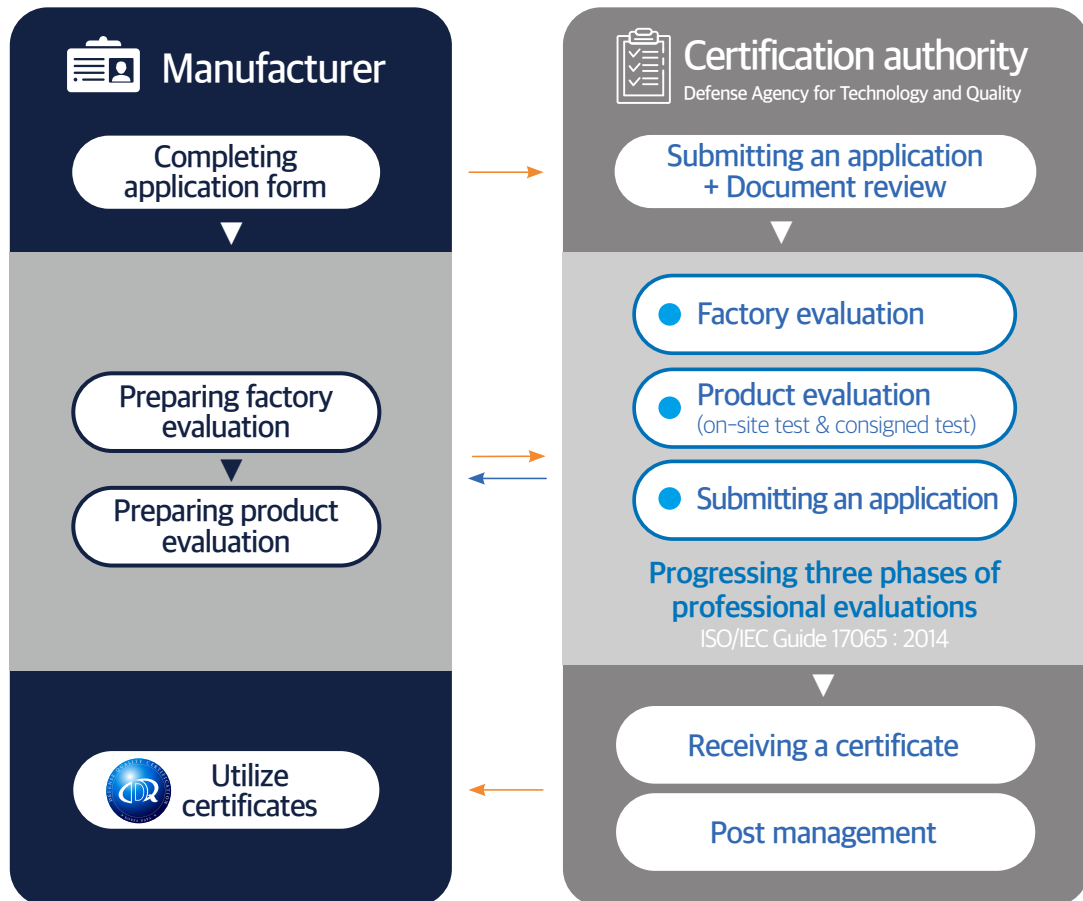
- Use the Certification Mark on products and packaging (valid for 3 years)
- When the validity period has elapsed, it is determined whether the Certification Mark is maintained or not through re-examination.



DQ is a certification mark of Korea.

DQ-certified products presented in this booklet will be a proper standard for choosing Prime products. Such Prime products have passed strict evaluation by experts for the quality, technology, marketing and financial soundness.

I DQ-certification procedure I



Certification evaluation unit & inquiries

Quality Certification Team of the Defense Agency for Technology and Quality 055-751-5256

Common Area

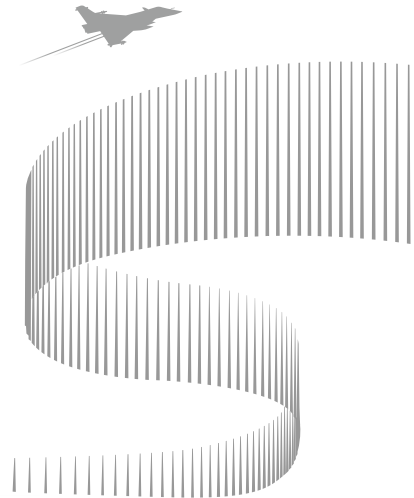
DAE MYUNG CO.,LTD	Paratrooper Main Parachute, Paratrooper Reserve Parachute	10
Daesung Tech Co., Ltd.	Bulletproof helmet	13
Sunkyung Industry	Food tray sterilizing dryer, Shoes sterilizer	14
Soosung Defense Industries Ltd	Automatic Gun Bore Cleaning System	16
HKC Co., Ltd.	Combat Vehicle Crew (CVC) helmet, Portable radiac set	17
Yeonhab Precision Co., Ltd.	Intercommunication set, Handset, Speaker, Cable assembly	19
YOUNG AN CHEMICAL IND CO.,LTD.	Chemical Protective Overboots, Chemical Protective Glove Set	22
Treksta Inc	Functional combat boots	24
Korea CNO Tech Co., Ltd.	Training hand grenades, 40mm training ammunitions	25
Hanwha Systems Co.,	Mine Detection Set	27



On Earth

KYUNG IL GMC CO., LTD.	Cylinder Head for M48 Tank	30
DAEDONG ENGINEERING. Co., Ltd.	Multi-Bucket for Mine Removal	32
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	40mm Automatic Grenade Launcher Sight DCL401	35
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Defence Korea Co., Ltd.	Recoilless Water Cannon	38
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Bosung Industry Co., Ltd.	Waterjet Propulsion System	44
SUHHAN Industries Co.Ltd.,	Oil Filter Assembly, Fluid Pressure Filter Component Kit	45
SW paper Co., Ltd.	Rounded paper case for storing bullets 81mm	47
Finished Solution	Cryogenic Cooler, Cryogenic Cooler	49
YGT	Air Conditioning Assembly for Chunmoo Multiple Rocket Launcher	51
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In Aviation

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**DQ CERTIFIED
PRODUCTS**

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Common Area

DAE MYUNG CO.,LTD	Paratrooper Main Parachute, Paratrooper Reserve Parachute	10
Daesung Tech Co., Ltd.	Bulletproof helmet	13
Sunkyung Industry	Food tray sterilizing dryer, Shoes sterilizer	14
Soosung Defense Industries Ltd	Automatic Gun Bore Cleaning System	16
HKC Co., Ltd.	Combat Vehicle Crew (CVC) helmet, Portable radiac set	17
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Hanwha Systems Co.,	Mine Detection Set	27

DAE MYUNG CO.,LTD

Paratrooper Main Parachute (MC1-1C)



- KIM SEONG EON
 +82-55-256-1188 / FAX +82-55-256-1189
 www.krparachute.co.kr
 (Bong-am-dong) 6, Jayumyeok 4-gil,
 Masanhoewon-gu, Chang-won-si,
 Gyeongsangnam-do, Korea

Product Description

Main parachute for paratrooper airborne infiltration

Specifications

Model	MC1-1C
Diameter	35FT
Descent Load	360LBS
Descent Speed	4~5m/sec
Canopy Shape	Solid(10% Extended Skirt)
Weight	29LBS

Purpose

Main parachute for tactical airborne infiltration by paratroopers

Operational Characteristics

- Can be deployed from a minimum altitude of 328 FT, ensuring quick deployment for enhanced safety of paratroopers
- Features three rapid snap attachments for easy detachment
- Equipped with two triangular rings for weapon attachment
- Deployment system using a static line

Advantages

- Made from fabric with low air permeability (0-5.0 CFM), reducing descent speed and enhancing paratrooper safety, thereby improving combat effectiveness
- Rapid deployment at low altitudes (1-2.5 seconds)

DAE MYUNG CO.,LTD

Paratrooper Reserve Parachute (T-10R)



Product Description

Emergency parachute for paratrooper airborne infiltration in case of main parachute malfunction

Specifications

Model	T-10R
Diameter	24FT
Descent Load	360LBS
Descent Speed	5~7m/sec
Canopy Shape	Solid(Flat Circular)
Weight	12LBS

Purpose

Reserve parachute for tactical airborne infiltration by paratroopers

Operational Characteristics

- Worn on the chest of the paratrooper and attached to the main parachute harness with two special D-shaped rings
- Deployed using a pull handle for guided opening

Advantages

- Worn on the chest, allowing emergency deployment using a quick-release handle
- Features an umbrella-shaped guide for swift deployment
- Equipped with a spring band system for rapid canopy deployment





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 Gyeongsangnam-do, Korea

Plans to utilize proprietary technologies

- Actively utilizes certified products to enhance reliability and quickly respond to user requirements, proposing convenience improvements

Export Performance (2020-2024)

Country	Product	Quantity	Amount in a thousand USD
Saudi Arabia	Paratrooper Main Parachute, MC1-1C	720	2,295.25
	Paratrooper Reserve Parachute, T-10R	202	249.00
Singapore	Paratrooper Main Parachute, MC1-1C	150	375.51
	Paratrooper Reserve Parachute, T-10R	150	142.50
Mongolia	Paratrooper Main Parachute, MC1-1C	30	97.60
	Paratrooper Reserve Parachute, T-10R	30	41.32
Total		1,282	3,201.18

Prime Products

- Personnel Parachute : MC1-1B/E, MC1-1C/D, T-10B/C/D, T-10R
- Escape Parachute : B-12, B-20, BA-22, SA-20
- Cargo Parachute : G-1A, G-13A, G-14, G-12D, G-12E, G-11A
- LCADS : 300 lbs, 500 lbs (LV / HV), 2,200 lbs (LV / HV)
- Illumination Parachute : 40mm, 60mm, 81mm, 105mm, 155mm, 4.2", 120mm
- Deceleration Parachute : F-4 Aircraft, F-5 Aircraft
- Container for Cargo Parachute & Sling : A-7, A-7A, A-21, A-22 & 3ft, 9ft, 11ft, 12ft, 16ft, 20ft Sling

DaeSung Tech Co., Ltd.

Bulletproof helmet



DaeSung Tech Co., Ltd.

YUN SEONG GEON

+82-51-831-4440 / FAX +82-51-831-4490

www.milpol.co.kr

(Songjeong-dong) 33, Noksansandan 261-ro 74beon-gil,
Gangseo-gu, Busan, Republic of Korea



Product Description

- DSF helmet protects a user's head.
- It is made of high-strength fiber in multi-layers, and the surface is painted with special matt materials.
- It is designed to attach accessories easily (possibly to attach accessories per buyer's request).
- The harness (suspension system) is adjustable for user's comfort.

Specifications

Size	S	M	L
Weight	1,105 ± 30	1,170 ± 30	1,230 ± 30
Impact protection	min. 650m/s (17grain FSP, V50)		

Advantages

- It has provides excellent bullet-proof performance and the shell shape to attach accessories easily.
- It has a four-point harness ensuring to adjust easily and wear stably.


Prime Products

Bulletproof helmet, bulletproof vest, personal protective prime products

Sunkyung Industry

Food tray sterilizing dryer



-  KIM JONG SEOK
-  +82-32-681-4240/ FAX +82-32-681-4241
-  www.sun-kyung.co.kr / www.aianuv.com
-  35-26, Ojeong-ro 211beon-gil, Ojeong-gu, Bucheon-si, Gyeonggi-do, Republic of Korea



Product Description

- It has little influence on objects and effectiveness for the most
- It is easy to use but without developing a tolerance of bacteria
- It controls and eliminates the enzyme of bacteria without leaving any remnant.
- It reduces costs for installation and maintenance.
- It can ensure great sterilizing effect with the drying function

Specifications

Model	SK-800K	SK-1800K
Dimensions	800×750×1800mm	1800×750×1800mm
Capacity	Food tray 100 pcs	Food tray 200 pcs
Front control panel	Digital system-temperature control, timer and current temperature display	
Sterilizing method	UV sterilization	
Drying method	Hot-air drying	
Configuration	Adjustable floor legs	
Power consumption	1.45kW	3kW

Purpose

It provides UV sterilization and hot-air drying of food trays and utensils to prevent infectious diseases from spreading.

Advantages

- It helps to prevent various infectious diseases.
- It can sterilize using UV-C ray that is 64x or stronger than sunrays.
- It odorless and tasteless, sterilizes quickly virus, fungi without causing any harm to human body.
- It sterilizes as well as dries after washing.

Sunkyung Industry

Shoes sterilizer



Product Description

- It has little influence on objects and effectiveness for the most.
- It is easy to use but without developing a tolerance of bacteria.
- It controls and eliminates the enzyme of bacteria without leaving any remnant.
- It reduces costs for installation and maintenance.
- It can ensure great sterilizing effect with the drying function.

Advantages

- It helps to prevent various infectious diseases.
- It can sterilize using UV-C ray that is 64x or stronger than sunrays.
- It odorless and tasteless, sterilizes quickly virus, fungi without causing any harm to human body.
- It sterilizes as well as dries after washing.

Specifications

Model	SK-7100K	SK-71020K
Capacity	10 pairs of military boots, 10 pairs of sneakers	20 pairs of military boots, 20 pairs of sneakers
Front control panel	Digital system-temperature control, timer and current temperature display	
Sterilization method	Plasma ionizer	
Drying method	Hot air	
Configuration	Stand	
Power consumption	1.8kW	3.6kW
Dimensions	600×500×1,950mm	1,200×500×1,950mm

Purpose

Ion plasma sterilization and hot-air drying of military boots help prevent infectious diseases from spreading.



Prime Products

Ultraviolet ray sterilizer, chopping boards sterilizer, boots sterilizer, hand sterilizer, combat boots sterilizer, hand washing stand, and cup sterilizer

Soosung Defense Industries Ltd

Automatic Gun Bore Cleaning System



Product Description

The automatic gun bore cleaning system is designed to clean the gun barrel automatically in a short amount of time with perfect precision. The system uses multiple combination wheels, sensors, ball flangers, guides for forward and reverse movement, and automatic positioning upon completion. It maintains concentric alignment with the gun barrel, cleaning each groove individually using brushes that correspond to the rifling of the barrel.

Specifications

Model	RB-76 / RB-105 / SB-120 / RB-155
Dimensions	Φ72x655mm / Φ101x720mm / Φ115x720mm / Φ151x775mm
Operating Temperature	-32 ~ 50°C
Cleaning Speed	2.1 ~ 2.5m/min
Weight	4.5Kg / 8.5Kg / 10Kg / 14.5Kg
Power Supply	DC 24V / AC110V / 220V(50Hz,60Hz)
Compatible Systems	Naval Gun / K1, Leopard1 / K2, M1A2 / K9, Paladin, PZH-2000

Purpose

The automatic gun bore cleaning system is essential for cleaning the bore of tank guns, naval guns, and self-propelled artillery. Unlike conventional manual cleaning, which requires several soldiers to clean with long rods and steel brushes, risking damage to the rifling and incomplete cleaning, this system perfectly cleans each groove without causing damage


Soosung Defense Industries Ltd.
 AN SANG JIN

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 www.soosungpmc.co.kr

 207-7, Dalchun-Dong, Buk-Gu, Ulsan, South Korea

Operational Characteristics

- Can be operated by a single soldier (manual cleaning typically requires 8-10 soldiers for 2-3 hours)
- Guarantees perfect cleaning performance, with individual brushes cleaning each rifling and groove (U.S., European, and Korean patents)
- Fast cleaning: Can complete cleaning in just 20-30 minutes
- Portable: Weighing between 8.7kg and 14.5kg, making it easy for a single soldier to carry
- All-weather use: One soldier can operate the system easily even in rain, snow, slippery conditions, extreme cold, or heat

Advantages

- Evenly sprays cleaning oil inside the bore to maximize cleaning quality
- A single soldier can quickly and perfectly clean the gun barrel
- Cleans by following the rifling inside the barrel, ensuring thorough cleaning
- Brushes automatically adjust for wear, maintaining consistent cleaning quality
- Extends the service life of the barrel, maximizing operational efficiency

Plans to utilize proprietary technologies

- The system is currently used in over 95% of South Korean army and navy tanks, naval guns, and self-propelled artillery, receiving high recognition for its superior performance
- It can be exported to countries with NATO-standard tanks, naval guns, and self-propelled artillery

HKC Co., Ltd.

Combat Vehicle Crew (CVC) helmet



JEONG JAE HA

+82-31-8010-7300 / FAX +82-31-8010-7228

www.hkci.co.kr

72-39, Hwangmu-ro 2065beon-gil, Bubal-eup, Icheon-si, Gyeonggi-do, Republic of Korea



Specifications

Size	Large : 225×280×160mm
Weight	Standard : 1.8 kg, large : 2.0 kg
Power	DC24±2V
Maximum current consumption	150mA
Noise reduction	Over 30dB
Frequency range	300Hz ~ 3,500Hz

- It consists of three sizes (standard, large, and extra large). Its adjustable liner and attachable hardshell allow easy use and maintenance.
- Bulletproof hardshell may be applied as needed.
- Improves the clarity of calls, protects the hearing of an operator and reduces their stress, alleviating fatigue related to low frequency noises.

Purpose

- It is a Combat Vehicle Crew (CVC) helmet used for wired or wireless communication by connecting to radio and intercommunication systems.
- Active Noise Reduction type of CVC helmet

Operational features and advantages

- Applying ANR (Active Noise Reduction) and manual noise reduction control reduces LF noise (500Hz or less) and HF noise (500Hz~20,000Hz) from tanks, thus improving communication clarity.

Plans to utilize proprietary technologies

- Active Noise Reduction type CVC(Combat Vehicle Crewman) crew helmet
- Only 1/3 the price of comparable US-made products. The Chinese equivalent is cheaper than our product, but does not feature active noise reduction control technology.
- Currently, it is being exported to many different countries. It is a strong enough product to compete against offerings from major global companies.

HKC Co., Ltd.

Portable radiac set



Specifications

Radiation measurement	Gamma and Beta
Scope	Dose : 1.0 μ Gy-1,000cGy, Dose Rate : 1.0 μ Gy/h-1,000cGy/h
Weight	430g
Operating temperature	-32 ~ 50°C
Operating time	1200hrs or more
Alarm Function	Auditory and visual
Size	35×79×142mm

Purpose

A small-scale, lightweight radioactive ray measurement instrument that broadcasts alarms after performing a realtime measurement of the level of pollution caused by radioactive rays to manpower, equipment, areas and facilities.

Operation features and Advantages

- Small, light-weight, and portable features allows using easily.
- Display shows the dose, dose rate (4-digit numbers), batteries condition, and equipment state.
- Built-in specific self-diagnostic function ensures to repair and troubleshoot easily.

Prime Products

Portable radiac set (PDR-1K), Combat Vehicle Crew (CVC)helmet (KHH-80A1)

Yeonhab Precision Co., Ltd.

Intercommunication set

 YEONHAB PRECISION CO.,LTD.

 KIM EUN JOO

 +82-41-620-3100 / FAX +82-41-566-5997

 www.yeonhab.co.kr

 219-27, Haksusosa-gil, Mokcheon-eup, Dongnam-gu,
Cheonan-si, Chungcheongnam-do, Republic of Korea



Product Description

- It is a digital bidirectional communication set which reduces the feeling of fatigue of crews exposed to continuous noise (in the battlefield). And, this set enables internal communication between crews by adopting Dynamic Noise Reduction (DNR) and Voice
- Operated Transmitting (VOX) for communication clarity.
- It supports an enhanced Built-In-Test (BIT), training sound and sound alerts interface, and data connection.

Specifications

Power	DC18 ~ 32V(DC-DC converter)
Operator	Up to six persons
Wireless communication	RT 4pcs
Signal processing	Digital
Communication system	Voice Operated Switching (VOX)
Configuration	Main controller, control box, and cable assembly

Purpose

As a digitalized version of the existing communication set VIC-7K, it is used for providing internal communication, wireless communication, and data communication between crew members for command and control after installing in the tanks, armored vehicles, and self-propelled artilleries.

Advantages

- It has a built-in operating system (easy to extend and change functions).
- Display, tone, and lamp provide real-time operation information
- It can be exported with AM/FM radio.



Yeonhab Precision Co., Ltd.

Handset



Product Description

The handset, fulfilling MIL-STD-810C environment standards such as low & high temperature and immersion, ensures high durability and reliability for extreme military operations.

Specifications

Impedance	150±22.5Ω(transmitter), 1000±100Ω(receiver)
Frequency sensitivity	-56dBm 이상(transmitter), 104~110dB(receiver)
Insulation resistance	Over 5,000MΩ
Communication system	PTT(Push to talk)
Withstand voltage	1,000VAC
Durability of switch	Over 2 million times

Purpose

The voice communication handset is used for both domestic and international tactical FM radio (PRC-999K, VRC-946K series, etc.)and compatible with H-250/U.

Advantages

- It can be easily installed and maintained.
- It is customizable.
- It has been approved by Korean Army and defense industries all over the world.

Yeonhab Precision Co., Ltd.

Speaker



Product Description

The high-performance speaker operates, meeting ML-STD-810C environment standards such as low temperature(-40° C), high temperature (+65°C), humidity, and salt water spray provides the excellent sound quality with a great adaptation to military operations.

Specifications

Power	2W
Impedance	600Ω
Frequency sensitivity	above 95dB in the range of 720Hz to 1,250Hz
Frequency range	250Hz ~ 5,000Hz
Maximum voltage	55V

Purpose

Permanent magnetic speaker assembly connects to radio sets in combat vehicles and command posts.

Advantages

- It can be easily installed and maintained.
- It is customizable.
- It has been approved by Korean Army and defense industries all over the world.

Yeonhab Precision Co., Ltd.

Cable assembly



Product Description

It transmits high-quality signals to various weapons systems installed in the field and command post, and its case provides the EMI shielding and outstanding environmental endurance.

Specifications

Working temperature	-45 ~ 70°C
Insulation resistance	Over DC500 V/100MΩ
Shielding	Over 30dB

Purpose

The cable assembly is for transferring signals between tactical electronic exchanger and wireless transmitter.

Advantages

- It prevents malfunctions by Electromagnetic Interference (EMI).
- It provides excellent stability, water-proof, flexibility, and oil resistance (available to use in bad weathers).

Plans to utilize proprietary technologies

Expected outcomes from certified products : Norwegian, Finnish and UAE export version of K-9 have the certified product mounted in them. Quality has been verified as excellent with regard to various environmental changes, etc. and the price is low.

Prime Products

Intercommunication set (VIC-7K, VIC-9K, VIC-7DK), hand-set, cable assembly, connector, deicing harness, YHSPD cables, etc.

YOUNG AN CHEMICAL IND CO.,LTD.

Chemical Protective Overboots



Product Description

Personal protective equipment designed to prevent the infiltration of toxic chemical agents during CBRN warfare, enabling operations in contaminated areas

Specifications

Size	Large (for combat boots over 270mm) / Small (for combat boots under 265mm)
Weight	Maximum 1,200g
Protection Against	Chemical agents (e.g., HD, GB)
Protection Duration	Minimum 360 minutes against HD / Minimum 450 minutes against GB

Other Information

- Competitive in technology, price, and quality compared to overseas competitors (Detailed comparison in the appendix)
Export strategy for Southeast Asian countries is based on superior quality compared to Chinese products and better price competitiveness than U.S. and Japanese products
- Export Promotion Status
 - Collaborated with Hancor SanCheong (gas mask



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- www.yac50.com
- 75, Seobu-ro 1541beonan-gil, Juchon-myeon, Gimhae-si, Gyeongsangnam-do

Operational Characteristics

Worn directly over combat boots

Advantages

As South Korea's sole manufacturer and supplier of chemical protective gloves and overboots, the company produces highly durable products that can be worn quickly. The products are continuously improved to enhance performance and quality

Plans to utilize proprietary technologies

Uses materials highly resistant to chemical agents to maximize protection

- Incorporates durable, non-slip soles to improve operational effectiveness
- The enhanced performance model is designed for quick donning and doffing

- manufacturer) to explore exports to Pakistan (since 2019)
Participated in a 2019 bid with Hancor SanCheong for 2,500 units of gloves and overboots for Pakistan DESTO
- Supplied CBRN equipment indirectly for special ships built by Hyundai Heavy Industries under contract with the Philippines in 2024
Plans to continue participating in future bids

YOUNG AN CHEMICAL IND CO.,LTD.

Chemical Protective Glove Set

Product Description

Personal protective equipment designed to prevent the infiltration of toxic chemical agents during CBRN warfare, enabling operations in contaminated areas

Specifications

Size	Large, Medium, Small
Thickness	0.64±0.18mm
Protection Against	Chemical agents (e.g., HD, GB)
Protection Duration	Minimum 360 minutes against HD / Minimum 450 minutes against GB



Operational Characteristics

Worn over cotton gloves provided in the package

Advantages

As South Korea's sole manufacturer and supplier of chemical protective gloves and overboots, the company produces highly durable products that can be worn quickly. The products are continuously improved to enhance performance and quality

Plans to utilize proprietary technologies

Uses materials highly resistant to chemical agents to maximize protection

- Despite their thinness, the gloves provide excellent tactile feedback, allowing for precise operations while wearing them

Export Performance (2022)

- Chemical Protective Gloves Set 220EA
- Chemical Protective Overboots 220EA
- Export Value : 15,681 [thousand KRW]
- Export Destination: Philippines

Treksta Inc

Functional combat boots



Treksta

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- ☎ +82-1599-0055 / FAX +82-51-309-3666
- 🌐 www.treksta.co.kr
- 📍 10, Noksansaneopjung-ro 192beon-gil, Gangseo-gu, Busan, Republic of Korea

Product Description

Nestfit technology optimized for waterproofing, breathability, and comfort

- Features a waterproof, breathable lining and antimicrobial /anti-odor insoles
- Enhances ankle mobility and outsole traction during walking
- Non-slip outsole for safety

Specifications

Type	Functional combat boots
Size	225mm ~ 230mm
Weight	1,370g (265 M 기준)

Purpose

Combat boots designed to maintain comfort and durability under harsh conditions, both in wartime and peacetime

Advantages

- Uses waterproof and breathable Gore-Tex fabric to maximize waterproof function, ensuring combat capabilities even in severe weather
- Enhances the comfort of wearing to minimize fatigue even in long marches
- Lighter weight than traditional combat boots, which improves activity
- Equipped with a non-slip outsole for enhanced slip-resistant function

Prime Products

Climbing boots, combat[military] boots etc

Korea CNO Tech Co., Ltd.

Training hand grenades



Specifications

Model	K416	K417	K418	CN-69
Smoke color	Red	Yellow	White	Yellow
Full length / diameter	70mm/50mm			89mm/64mm
Weight	260g			397g
Sound level	Over 100dB			
Delay time	4 ~ 5 sec			
Operating environment	-50 ~ 80°C			
Airframe	Body	Mineral		
	Pad	Eco-friendly plastic		
Fuse	Cartridge	Metal and paper tube		
	Adapter	Eco-friendly plastic		

Safety

- It designed to prevent injuries from explosive fragmentations.
- Even if it explodes during an exercise session, it will not cause injuries, as the explosion splinters are made of soil.
- Paper-composed parts prevent explosions of the unexploded grenade being exposed to dew or rainy environments.

CNO KOREA CNO TECH CO.,LTD.
World's Best Eco-friendly KOREA CNO TECH CO., LTD.

OH SE HONG

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www.cnotech.com

108-5, Murim-gil, Yeongsun-myeon, Mungyeong-si,
Gyeongsangbuk-do, Republic of Korea

Eco-friendliness

The airframe and fuse assembly consisted of clay and biodegradable plastic decompose without leaving pollutants.

Purpose

It is tactical and training hand grenade before using a live hand grenade.

Operational features and advantages

- It is identical to live hand grenades regarding weight and delay time (size and weight are customizable).
- Various functions such as explosive sound and colored smoke can enhance training effectiveness.
- It has uniqueness (patented from Korea & USA and approved as utility model).



Actual safety testing in progress



Korea CNO Tech Co., Ltd.

40mm training ammunitions



Specifications

Size	L100×D41.2mm
Weight	215g
Sound level	Over 100dB at 50m
Range	Up to 400m
Function	Explosive sound, smoke (yellow)
Operating environment	-50 ~ 80°C

Purpose

It is training ammunitions of 40mm high explosive ammunitions, which are used to effectively attack blind spots with direct firearms.

Operation features

- It is fired by a 40mm grenade launcher has the same operational

and functional features with the highly explosive cartridges.

- It enhances the effectiveness of training with the explosive sound and yellow smoke in the impact area.
- Use of rotational safety device ensures safety. (operates at 2,000rpm or higher.)

Advantages

- It minimizes the environmental damage with eco-friendly materials (i.e.biodegradable resin, earth, etc.).
- Installed rotating safety device can function only at over 2,000rpm.

Eligible firearms

M203, M79, H&K69, K201,
NATO standard 40mm grenade launcher, etc.

Company introduction

A young, strong company with the creative ideas and innovative technologies needed to manufacture and deliver the diverse exercise materials and equipment armies use to improve their combat abilities.

A company that marches toward the world market to become a leader in non-weapon systems. In particular, the soil-based exercise grenade developed by the company is a world first that has been recognized throughout the world for its eco-friendly and safe characteristics.

Proprietary technologies and products

- Non-lethal bullets : Exercise grenade, smoke grenade, flare explosion grenade, tear gas grenade, 37/38mm smoke bullet, 40mm exercise bullet, 40mm rubber bullet and so on
- Multiple launchers

Plans to utilize proprietary technologies

- Exercise grenade [K416, K417, K418, CN69]
 - Eco-friendly materials(bio-degradable resin, soil and etc.) are used to minimize environmental issues.
 - Safety-first design ensures no injuries caused by explosion splinters
- 40mm exercise bullet [CTS-40]
 - Same shape and weight as actual bullets.
 - Low failure rate and high safety with rotating safety device selection
- Multiple launchers [STARK-15, STING-15]
 - Can use various types of bullets. (40mm bullet, 20mm bullet, 37/37mm bullet)
 - Can be used by loading it on ground, or in building/vehicle.
 - Remote operation. (Use a remote controller to rotate vertically and horizontally and shoot.)
 - 450 hours of recording is possible.

Hanwha Systems Co., Ltd

Mine Detection Set (PRS-20K, Pannop-HM)

 Hanwha Systems

 UH SUNG CHEOL

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 www.hanwhasystems.com

 244, 1gongdan-ro, Gumi-si, Gyeongsangbuk-do



Product Description

A multi-sensor mine detector that uses a metal detector (MD) and ground penetrating radar (GPR), either individually or in combination, to detect both metal and non-metal mines

Specifications

Type	Mine Detection Set (PRS-20K, Pannop-HM)
Size	Maximum 1830mm (850mm when folded)
Weight	Less than 4.0kg (less than 22kg with carrying case)
Sensor	Multi-sensor (MD, GPR) / Detects metal and non-metal objects
EMC Standard	MIL-STD-464C

Operational Characteristics

- Detects both metal and non-metal mines using a combination of sensors (MD, GPR)
- Outputs mine detection information through audio signals, indicators, and visual displays
- Detects metal mines underwater using MD mode
- Offers three operation modes: MD only, GPR only, and combined MD+GPR
- Adjustable detection rod length for various detection positions

Advantages

- Detects non-metal mines and improvised explosive devices (IEDs) using the multi-sensor system
- Provides real-time visual display of object position and depth
- Features multiple alarm systems for effective object recognition
- Excellent for maintenance with real-time and periodic built-in tests (BIT)
- Simple to operate compared to other equipment, making it easy for beginners and allowing for quick re-deployment after operational breaks
- Customizable for left- and right-handed users with adjustable arm mounts

Plans to utilize proprietary technologies

Used in metal and non-metal mine clearance operations

Export Performance

In 2023, exported three Mine Detectors-II to Iraq

Prime Products

Intelligent Surveillance and Reconnaissance, C5I(Command, Control, Communications, Computers, Cyber and Intelligence), Maritime Systems



**DQ CERTIFIED
PRODUCTS**

02



On Earth

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KYUNG IL GMC CO., LTD.

Cylinder Head for M48 Tank


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 www.kyungilmetal.com

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Bubuk-myeon, Miryang-si, Gyeongsangnam-do


Product Description

A component of the AVDS-1790-2 diesel engine. This air-cooled V12 diesel engine is known for its powerful output and excellent durability.

Specifications

Model	Cylinder Head for M48 Tank, for diesel engines
Rated Power	750 BHP
Rotation Speed	Idle: 675-725 RPM Operating: 1,000-2,400 RPM
Engine Performance	Maintains over 95% of initial output

Purpose

The diesel engine of the M48 tank plays a crucial role in maintaining the tank's mobility and ensuring efficient operational capabilities. Among the engine's components, the cylinder head is directly linked to engine performance.

Operational Characteristics

The cylinder head of the M48 tank is a key component of the engine, significantly affecting both performance and durability. The M48 tank, powered by the AVDS-1790-2 diesel engine, boasts powerful output and durability, and the cylinder head is critical in maintaining these qualities. Regular inspection and maintenance of the cylinder head are essential to ensure optimal performance.





Advantages

- High-temperature durability: Maintains stable performance even in combat conditions
- Excellent compression strength: Ensures proper engine compression ratio, leading to good fuel efficiency and strong output
- Effective cooling and lubrication: Prevents engine overheating, enhancing durability and minimizing wear
- High durability and reliability: Manufactured from high-strength materials, providing durability and reliability for stable performance in combat situations
- Easy maintenance and replacement: Simplified part replacement increases operational efficiency, reducing maintenance costs

Plans to utilize proprietary technologies

We supply major parts for M48 tanks, which are still operated by several allied countries

- With our proven technology and dedication, we ensure stable quality and cost-efficiency, which strengthens our competitiveness in the market for M48 tank parts, a market that is gradually narrowing. This competitive edge positions us as a responsible supplier, and our efforts will soon extend to supplying parts for the K1 and K2 tanks, Korea's current main battle tanks

Export Performance

- In 2019, exported 300 cylinder heads to Global Parts Supply Co., Ltd. in Taiwan. (While annual contracts were expected, they were disrupted due to the COVID-19 pandemic, but recovery efforts are ongoing)

Prime Products

Defense products other than M48 cylinder heads, Hydraulic relief valves, Speed reducer spindles for excavators, Propeller pump parts, Electric vehicle parts, etc.

No.	Title	Patent No.
1	Pressurized Jig for Heat Treatment	Patent No. 10-1232721
2	Heat Treatment Furnace for Heating	Patent No. 10-1145269
3	Valve Seat Lapping Device for Cylinder Head	Patent No. 10-2011025
4	Jig Device for Electron Beam Welder	Patent No. 10-2044909

DAEDONG ENGINEERING. Co., Ltd.

Multi-Bucket for Mine Removal (DMB30)



Product Description

This device is mounted on an excavator fork unit and uses a vegetation removal system (vegetation clamp and cutter) to clear parts of vegetation in mine-infested areas while minimizing forest destruction. It excavates to a depth of 30 to 50cm or more and simultaneously utilizes vibration to expose and detonate mines

Specifications

Model	DMB30
Dimensions	2423×1883×1405mm
Capacity	22-30 ton
Pressure Ψ	2944-3556 psi
Flow Rate	120-140 l/min

Purpose

The multi-bucket is used to remove buried mines at mine removal sites. It attaches to an excavator and utilizes vibration to filter soil and small gravel, allowing for mine detection and removal

Operational Characteristics

- 360° rotation allows for omnidirectional operation
- Easily clears trees and vegetation in mine-affected areas
- Elastic components which keeps impact absorption, maintain equipment durability
- Safety ensured by using an anti-dispersal cover in the situation of mine detonation
- Softens the ground through vibration, allowing for permafrost operations



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Advantages

- The world's only multi-purpose vibrating bucket
- Developed with NET new technology for mine-removing excavators
- Higher excavation and operational efficiency compared to existing mine-removal buckets
- Multi-bucket suitable for South Korea's mountainous terrain for effective mine removal
- Outstanding mine detection capabilities through vibrations exceeding 40Hz
- Bulletproof design ensures operator safety and prevents accidents

Plans to utilize proprietary technologies

Differentiation from Other Products

- Capable of removing non-metallic mines, eliminating the need for secondary mine removal operations
- The vibrating fork unit softens hard ground, reducing operation time
- Capable of excavating deeper than the depth at which mines are buried and removes mines through vibration

Expected Effects

- Can be attached to excavators, allowing for various industrial applications
- Expected to replace imported foreign equipment with domestic alternatives
- Minimizes forest destruction by using equipment suited to mountainous terrain

Prime Products

Maxbrio Ripper,

DPD pile Driver



D.I. Optical Co., Ltd.

12.7mm Heavy Machine Gun Sight DCL120


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 1, Seokcheon-ro 380beon-gil, Ojeong-gu, Bucheon-si, Gyeonggi-do


Product Description

- Used with 12.7mm heavy machine guns (K-6, M2HB)
- It is mounted on vehicles where aiming with iron sights or anti-aircraft sights is difficult, such as helicopters, defense positions, tactical vehicles, and assault boats. With the ballistic correction feature, there is no need for repeated adjustment shots

Specifications

Model	DCL120
Size	330 x 180 x 150mm
Weight	3,300g (including battery)
Brightness Levels	11 Levels
Additional Feature	Integrated 12.7mm ballistic correction device (dial type)

Purpose

Mounted on 12.7mm heavy machine guns (K-6, M2HB), a red dot reflected on a specially coated lens is used to aim at the target

Advantages

- Large lens (120 x 70mm) ensures a wide field of view for easy aiming
- Built-in 12.7mm ballistic correction device enables quick adjustments for various ranges
- Compatible with the international standard 20mm Picatinny rail, allowing night shooting by mounting laser aiming devices
- Draining system allows use even in rainy conditions

Export Performance

Export Country	Poland
Product Name	DCL120
Quantity	XX
Export Amount	USDX, XXX

D.I. Optical Co., Ltd.

40mm Automatic Grenade Launcher Sight DCL401

Product Description

- Used with 40mm automatic grenade launchers (K-4, MK19, GMG40)
- Provides easier aiming compared to using iron sights, and the ballistic correction feature reduces the need for repeated adjustment shots

Specifications

Model	DCL401
Size	240 x 140 x 315mm
Weight	4,500g
Brightness Levels	11 Levels
Additional Feature	Integrated 40mm ballistic correction device (dial type)

Purpose

Mounted on 40mm automatic grenade launchers (K-4, MK19, GMG40), a red dot reflected on a specially coated lens is used to aim at the target

Advantages

- Large lens (83 x 53mm) ensures a wide field of view for easy aiming
- Built-in 40mm ballistic correction device enables quick adjustments for various ranges
- Draining system allows use even in rainy conditions



Export Performance

- Export Country : Saudi Arabia
- Product Name : DCL401
- Quantity : X, XXX
- Export Amount : USDX, XXX, XXX

Other

Product Classification by Firearm Model		
DM401: K4	DM401M: MK19	DM401G: GMG40

D.I. Optical Co., Ltd.

7.62mm General Purpose Machine Gun Sight DCL100M



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Product Description

- Used with 7.62mm general-purpose machine guns (M240, M60)
- Provides easier aiming than using iron sights, and the ballistic correction feature reduces the need for repeated adjustment shots

Advantages

- Large lens (43 x 30mm) ensures a wide field of view for easy aiming
- Built-in 7.62mm ballistic correction device enables quick adjustments for various ranges
- Draining system allows use even in rainy conditions

Specifications

Model	DCL100M
Size	180 x 100 x 90mm
Weight	810g (including battery)
Brightness Levels	11 Levels
Additional Feature	Integrated 7.62mm ballistic correction device (dial type)

Export Performance

- Export Countries : USA, Nepal
- Product Name : DCL100M
- Quantity : X, XXX
- Export Amount : USDX, XXX, XXX

Purpose

Mounted on 7.62mm general-purpose machine guns (M240, M60), a red dot reflected on a specially coated lens is used to aim at the target

D.I. Optical Co., Ltd.

5.56mm Light Machine Gun Sight DCL100S



Product Description

- Used with 5.56mm light machine guns (K-3, M249)
- Provides easier aiming than using iron sights, and the ballistic correction feature reduces the need for repeated adjustment shots

Specifications

Model	DCL100S
Size	180 x 95 x 90mm
Weight	760g (including battery)
Brightness Levels	11 Levels
Additional Feature	Integrated 5.56mm ballistic correction device (dial type)

Purpose

Mounted on 5.56mm light machine guns (K-3, M249), a red dot reflected on a specially coated lens is used to aim at the target

Advantages

- Large lens (43 x 30mm) ensures a wide field of view for easy aiming
- Built-in 5.56mm ballistic correction device enables quick adjustments for various ranges
- Draining system allows use even in rainy conditions

Export Performance

- Export Country: USA
- Product Name: DCL100S
- Quantity: X, XXX
- Export Amount: USDX, XXX, XXX

Defence Korea Co., Ltd.

Recoilless Water Cannon (KD-101)



Product Description

The KD-101 recoilless water cannon is used in explosive ordnance disposal (EOD) operations to disable explosions of detonators or ignition devices by firing high-pressure water, preventing immediate explosions. It plays a defensive role in situations involving terrorist attacks and explosive threats, supporting military and special police operations effectively with explosive removal tasks.

Specifications

Model	KD-101
Caliber	40mm
Length	588mm (with water cannon)
Weight	Less than 9kg (including barrel, mount, tripod, angle adjustment device, and laser)
Material	Stainless steel
Firing Method	Electric
Ammunition	CAL .50 blank round

Purpose

The recoilless water cannon is used to remove detonators, mines, and improvised explosive devices (IEDs). When suspicious objects are found, the surrounding area is scouted using X-ray equipment and EOD robots. The cannon is then used to shoot high-pressure water toward the suspected explosive object to neutralize it.



OH JUNG KUN

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424, 1, Maehwasandan 3-gil, Siheung-si, Gyeonggi-do,
Republic of Korea

Operational Characteristics

- Non-lethal : Uses water, minimizing collateral damage to people around the explosive
- Neutralizes explosives using only the impact of water, ensuring a non-lethal approach to disposal
- Remote Operation : Can be operated remotely to minimize risk, keeping a safe distance between the user and the explosive
- Portability : Designed to be carried in a Pelican case, allowing for quick transport and deployment in various situations

Advantages

- Proven 99% recoilless rate (during water cannon firing) by accredited testing agencies
- Equipped with a NATO-standard Picatinny rail mount, allowing for the attachment of various accessories such as aiming lasers, optical sights, and cameras to meet operational needs
- Uses commercially available mounts (tripods), allowing for quick replacement in case of damage and high compatibility
- Can be mounted on tripods or EOD robots for operation
- Capable of firing up to 50 meters using a long-range muzzle and projectiles



Plans to utilize proprietary technologies

- Recoilless Design : The recoilless water cannon is designed to eliminate almost all recoil during firing, reducing physical strain on the operator and allowing for precise aiming and continuous firing
- High-Pressure Water Firing : Fires high-pressure water jets to disable detonators or other sensitive components of explosives. The high pressure and speed of the water disrupt or destroy the functioning of the explosive
- EOD Robot Compatibility : Can be mounted on EOD robots and used with slugs not only for explosive disposal but also for clearing paths and breaching barriers.

BAROTECH SYNERGY Co., Ltd.

Vulcan Engagement Simulator



Product Description

- Development of a high-performance engagement simulator similar to the actual Vulcan system
- A production of independent azimuth/elevation motion, dynamic modeling, implementation of 8 types of terrain databases, 67 types of aircraft, the implementation of an instructor control room, and production of 6 units

Specifications

Model	Vulcan Simulator
Size	1,795mm × 2,443mm × 22,945mm (W × D × H)
Weight	1.1 ton
Structure	Upper gun assembly structure, Lower gun assembly structure
Material	Steel(SS400, S45C), Aluminum(A1050, AL606)

Purpose

- Aim to improve shooting skills through repeated simulated training of Vulcan operation, functional tests, and engagement procedures based on shooting methods
- Elimination of the need for long-distance travel (approximately 150 km or more) for live-fire training

Operational Characteristics

- System Equipment
 - Control Handle: Features servo system for automatic control amplification (CLSD)
 - Motion: Independent azimuth and elevation motion (360-degree continuous rotation, -5 to 80 degrees elevation)

- Aiming Device and Control Panel: Realistic aiming and HUD display
- Shooting Data Input Panel: Shooting procedures (ballistic angle/frequency) and BIT/error codes
- **Dynamic Modeling**
 - Simulated Vulcan ballistic trajectory: Shooting effective range (1.9 km) and self-destruction (2.7 km)
 - Simulates the dynamic characteristics of enemy aircraft with target lead calculation based on local radar input
 - Situational firing methods: Anti-aircraft/ground/naval/thermal imaging/night/zoom shooting
 - Sound Effects: 11 types of sounds, including aircraft explosions and Vulcan firing, with 5.1 channel audio
- **Visual System**
 - HUD Display 50" LED + 7" HUD display mounted on elevation device
 - 1-meter resolution satellite imagery DB for 8 types of terrain (mountains, flatlands, coastal areas, urban areas)
 - 3D target models for 67 types of enemy and allied aircraft (helicopters, high-speed aircraft, low-speed aircraft, drones)
 - Varied battlefield environments: Time (4 types)/Weather (6 types)/Special (4 types) effects
- **Instructor Control Room**
 - Scenario creation/editing: Region, aircraft, attack patterns, time, weather effects, special shooting
 - Training control and monitoring: Start/Pause/End, remote monitoring for 1/2/6 units
 - Recording and Playback System: Stores individual training videos for quarterly debriefing (226 hours)
 - After-action review system: Stores and outputs evaluation results for individuals/groups

Plans to utilize proprietary technologies

Hardware	<ul style="list-style-type: none"> - Lower gun assembly <li style="padding-left: 20px;">: Lower gun drive control assembly - Upper gun assembly <li style="padding-left: 20px;">: Elevation drive assembly, lead calculator assembly, etc.
Middleware	<ul style="list-style-type: none"> - Power system design (main power design, power distribution system) - KVM system - Communication cable system - Input/output system - Servo control board configuration (terminal map, channel map) - Lower gun drive control assembly - Upper gun drive control assembly - Cables (LAN cable, KVM cable, sound cable)
Software	<ul style="list-style-type: none"> - Composed of 8 types of software components (S/W CSC) - Simulated training regions - Terrain DB implementation - Target object modeling - Battlefield environment effects simulation - Sound effects simulation - Mission creation, configuration, and editing

Advantages

- **Real Equipment Color Application**

: Applied matte brown (P-BR1211-S0) from Samhwa Paint Co., Ltd, the closest color to real Vulcan equipment

Real Vulcan Equipment Color	Simulator Color Application
<p>Real Vulcan Equipment</p> <ul style="list-style-type: none"> - Coating Method: Liquid Coating - Color: FED-STD-5959 color code 24087 (military green) - Feature: Colors that meet foreign standards are hard to source domestically, and their durability is weak, making them vulnerable to external impact. 	<p>Vulcan Simulator Application</p> <ul style="list-style-type: none"> - Coating Method: Powder Coating - Color: Closest match to real Vulcan equipment, using Samhwa Paint products - Feature: Excellent durability and corrosion resistance. Test reports available for the applied paint.
	

Satisfactory Test Results

- **Verified military requirements, suitability for military operations, and the practicality of integrated logistics support**

- Development Test (DT) Results: Passed standard criteria (142 items).
- Operational Test (OT) Results: Passed standard criteria (87 items)

Category	Total	Performance and Functionality Test			Reliability Test	
		Subtotal	Military Requirements	Basic Functionality		Additional Requirements
DT Test Evaluation Items	142	139	60	40	39	3
Standard Passed	142	139	60	40	39	3

Category	Total	Military Requirements	Technical Sub-Performance	Additional Requirements	Suitability for Military Operations	Integrated Logistics Support Elements
OT Test Evaluation Items	87	25	21	25	10	6
Standard Passed	87	25	21	25	10	6

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🏠 www.baro-tech.co.kr

📍 141, Yeonkot-ro, Jeongchon-myeon, Jinju-si,
 Gyeongsangnam-do, Republic of Korea

• Easy Mounting and Maintenance

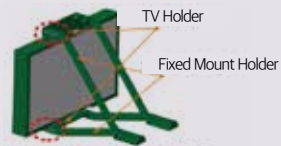
: The stability of the visual device mounting has been enhanced through dual fixation using a mounting bracket, and inspection windows have been incorporated to facilitate easy maintenance

Visual Device Assembly Mounting and Maintenance

Video Device Assembly Fixing



- Fixed on the same structure as the lead computing sight
 - Moves at the same angle as the sight
- Secured with 12 M12 bolts



- Separate structure for the TV and the mounting bracket holder
 - Secured with 16 M10 bolts

TV Mounting and Shock Protection

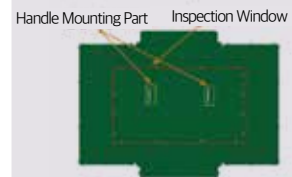


- Mounted using the fastening holes provided on the back of the TV
 - Secured with 4 M16 bolts Dual fixation using a fixed bracket
 - Prevents shaking and damage
 - TV can be removed by simply detaching the fixed bracket

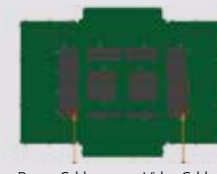


<Completed Assembly>

Configuration of Inspection Window for Maintenance



- Inspection window for TV removal and cable installation
 - Size: 725 x 405mm
 - Secured with 16 M5 bolts Equipped with a handle



Power Cable Mounting Part

Video Cable Mounting Part

Bosung Industry Co., Ltd.

Waterjet Propulsion System (POD380)



BOSUNG INDUSTRY CO., LTD.

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 81-11 Unha-ro 434 Beon-gil, Eunhyeon-myeon, Yangju-si, Gyeonggi-do, Korea



Product Description

A water propulsion system for the Republic of Korea Army's wheeled armored vehicles and related models (command post/medical evacuation vehicles).

Specifications

Type	Pod
Size	abt. 785mm(L) x 517mm(H) x 410mm(W)
Weight	75 kg (max)
Performance	Thrust (Bollard) 6,200N (min) @55kW DHP
Operation	Steering and reversing
Water Speed	Min 8 km/h (based on the ROK Army K808 armored vehicle)

Purpose

Pod-type waterjet propulsion system for armored vehicles.

Operational Characteristics

- Used as a waterjet propulsion system for armored vehicles when crossing rivers
- Despite its compact size, it provides excellent thrust, making it highly effective for water propulsion of armored vehicles
- A bucket controls the direction of the water jet, making steering and reversing easy for the armored vehicle.

Advantages

- Compact size allows easy installation in the available space on both rear sides of the armored vehicle
- Made from aluminum alloy, providing both light weight and excellent strength
- Modular design enables easy attachment and detachment from the armored vehicle, improving maintenance
- Superior durability due to surface treatment, making it suitable for the operational environment of armored vehicles

Plans to utilize proprietary technologies

- Used as a water propulsion system for river crossing operations by the Army's wheeled armored vehicles
- Utilized as a water propulsion system for amphibious assault during Marine Corps operations
- Applied as a water propulsion system for Navy and Coast Guard patrol boats and high-speed vessels
- Used as a water propulsion system for Navy and Coast Guard unmanned surface vessels (USVs)

Prime Products

Pod380 WaterJet, Engineering Control System

SUHHAN Industries Co.Ltd.,

Oil Filter Assembly


SUHHAN industries Co., Ltd.

- KANG YOON SIK
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 www.suhhan.net
 35, Dasan-ro 176beon-gil, Saha-gu, Busan,
 Republic of Korea



Product Description

- Can be used at oil temperatures above 170°C
- Suitable for hydraulic fluids that meet the US military standard (MIL-L-2104)

Specifications

Stock Number	4730 37 503 5949	2530 37 A09 8290
Part Number	60805226	60621554
Applicable Equipment	K200 A1 Armored Vehicle	K200 Armored Vehicle
Filtration Precision	10 μ m	25 \pm 5 μ m
Operating Temperature Range	-32 ~ 150°C	-50 ~ 120°C

Purpose

Ensures stable high-level oil cleanliness over an extended period in the hydraulic systems of the K200 A1 armored vehicle and the transmission system of the K200 armored vehicle

Advantages

- Excellent dust collection capability with a long replacement cycle
- Robust housing designed to meet international standards.
- Maintains high safety even under large pressure differences
- Reduces maintenance costs due to extended replacement cycles



SUHHAN Industries Co.Ltd.,

Fluid Pressure Filter Component Kit



Product Description

- Can be used at oil temperatures above 170°C
- Suitable for hydraulic fluids that meet the US military standard (MIL-L-2104)

Specifications

Stock Number	4330 01 214 9303	2520 37 521 5477
Part Number	60618735	A60076060
Applicable Equipment	K200 A1 Armored Vehicle	K-9 Self-Propelled Howitzer
Filtration Precision	10 ~ 25 μ m	25 ~ 40 μ m
Operating Temperature Range	-51 ~ 177°C	-51 ~ 137°C

Purpose

Ensures stable high-level oil cleanliness over an extended period in the transmission systems of the K200 A1 armored vehicle and the K-9 self-propelled howitzer.

Advantages

- Excellent dust collection capability with a long replacement cycle
- Maintains high safety even under large pressure differences
- Reduces maintenance costs due to extended replacement cycles

Prime Products

Air, Oil, Fuel and Hydraulic Filters and Elements(For Self-propelled Artillery, Wheeled Vehicle, Heavy Equipment, Automobile Parts, Naval Warship Parts)

Plans to utilize proprietary technologies

We receive annual requests from the Army, Navy, and Air Force for the domestic development of products. Even for small-volume products that are difficult to procure in a short period, we localize them to minimize the loss of combat power due to maintenance delays. This improves our ability to respond to urgent situations. We also participate in the joint development of domestic weapons system parts, contributing to the performance enhancement of equipment developed purely with domestic technology.

Export Performance

	In 2020	In 2021	In 2022	In 2023	In 2024
Countries	Japan, USA	Japan, USA	Japan, USA	Japan, Malaysia	Malaysia
Product Name	Filter Element	Filter Element	Filter Element	Filter Element	Filter Element
Quantity	100EA	300EA	400EA	1,000EA	2,000EA
Export Amount	\$9,005	\$24,236	\$32,776	\$84,286	\$150,000

SW paper Co., Ltd.

Rounded paper case for storing bullets 81mm



Fiber Container



Operation Drawing



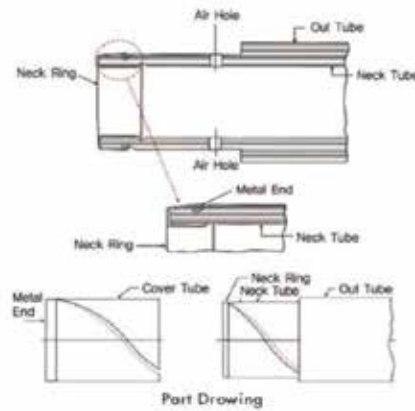
Detail Drawing

Product Description

This product is characterized by being waterproof, moisture-proof and water-repellent, and having durability surpassing required criteria. When stored outdoors for a long time, ammunition suffers corrosion or malfunction due to its exposure to moisture in the air. The '81mm ammo box' minimizes the probability and risk of exposure to moisture.

Specifications

Type		High explosive HE	Practice bullet TP	White bullet WP	Flares ILL	
Full length		555.5mm			663.5mm	
Weight		1,050g			1,100g	
Operation environment		-62.2 ~ 73.9°C				
Packing		1/FBR CNTR 35/PPR BOX				
U.S.A Weapon		M1, M29, M29A1				
Rounded paper case	Cover tube	Outer diameter	Φ100.0			
		Length	120.6mm(-1.0mm)		130.1mm(-1.1mm)	
	External tube	Outer diameter	Φ100.0(-1.0)			
		Length	434.9mm(-1.0mm)			533.4mm(-1.9mm)
	Neck tube	Outer diameter	Φ83.0(-1.0)		Φ83.0(-0.9)	
		Length	411.5mm(+3.0mm)		422.2mm(-1.5mm) 604.9mm(+3.9mm)	



Plans to utilize proprietary technologies

- Expected outcomes of the product

Products can be customized when requested. With our mass production system, we can stably deliver customers their desired quantities by their deadlines.

- Distinction from global competitors

With a recent focus on contributing to military power improvement projects, we have been developing and producing eco-friendly and recyclable materials. We are making continuous efforts in the area of R&D to provide price competitiveness for exports.

Company information

- Main products
 - Medium/big diameter bullets, grenade, other developed

- bullets packaging rounded paper case and containers
- Foods, cosmetic products, promotion and ads materials and various industrial paper tubes and containers distributed in Korea Key technologies
- Eco-friendly bullet packaging rounded paper case(patented)
- Ceramic plastic rounded paper case(patented)
- Eco friendly square paper tube(patented)
- Sterilized paper tube(patented)

Prime Products

120mm, 105mm, 81mm, 60mm, 40mm, 35mm rounded paper case, 2.75 inch rounded paper case lightweight grenade, rounded paper case for other types of bullets, paper case packaging containers and so on

Finished Solution

Cryogenic Cooler (CR-403K)

 **Finished Solution**
 CHOI MYUNG HAW

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 www.finishedsolution.com

 79, Yangchon Industrial Complex, Hwanggeumno 109Beon-gil,
Yangchon-eup, Gimpo-si, Gyeonggi-Do, Republic of Korea


Specifications

Model	CR-403K
Capacity	265g
Type	Rotary Type Cryogenic Cooler
Rated Voltage	14V
Maximum Power Consumption	@23°C: ≤15 WDC
Control Power Consumption	@23°C: ≤7 WDC
Cooling Time	@23°C: ≤7Min 30Sec
Cooling Temperature	82K±1K
MTTF	6,000 hours
Environmental Conditions	MIL-STD-810

Product Description

Designed to cool down the temperature of IR sensors (320 x 240 pixel resolution, used in thermal imaging equipment for day and night surveillance) to cryogenic levels, providing a clear display

Purpose

Thermal imaging equipment equipped with IR sensors uses cryogenic coolers to lower the detector's temperature to cryogenic levels, visualizing subtle temperature differences of the target

Operational Characteristics

- The CR-403K Cryogenic Cooler is a device that cools IR sensors to cryogenic levels, offering high efficiency and reliability.
- Installed in aircraft, combat vehicles, firefighting equipment, and satellites equipped with IR detectors.

Advantages

- A key device mounted on thermal imaging equipment used by frontline military units, aiding in identifying targets during day and night operations
- The CR-403K cools the installed IR sensors to cryogenic levels, enabling the detection of thermal images.

Finished Solution

Cryogenic Cooler (CR-405K)

Product Description

Designed to cool down the temperature of IR sensors (320 x 240 or 640 x 480 pixel resolution, used in thermal imaging equipment for day and night surveillance) to cryogenic levels, providing a clear display

Purpose

Thermal imaging equipment equipped with IR sensors uses cryogenic coolers to lower the detector's temperature to cryogenic levels, visualizing subtle temperature differences of the target

Operational Characteristics

- The CR-405K Cryogenic Cooler is a device that cools IR sensors to cryogenic levels, offering high efficiency and reliability.
- Installed in aircraft, combat vehicles, firefighting equipment, and satellites equipped with IR detectors.

Advantages

- A key device mounted on thermal imaging equipment used by frontline military units, such as tanks and portable thermal imaging equipment, aiding in rapid target identification.
- The CR-405K cools the installed IR sensors to cryogenic levels, enabling the detection of thermal images.



Specifications

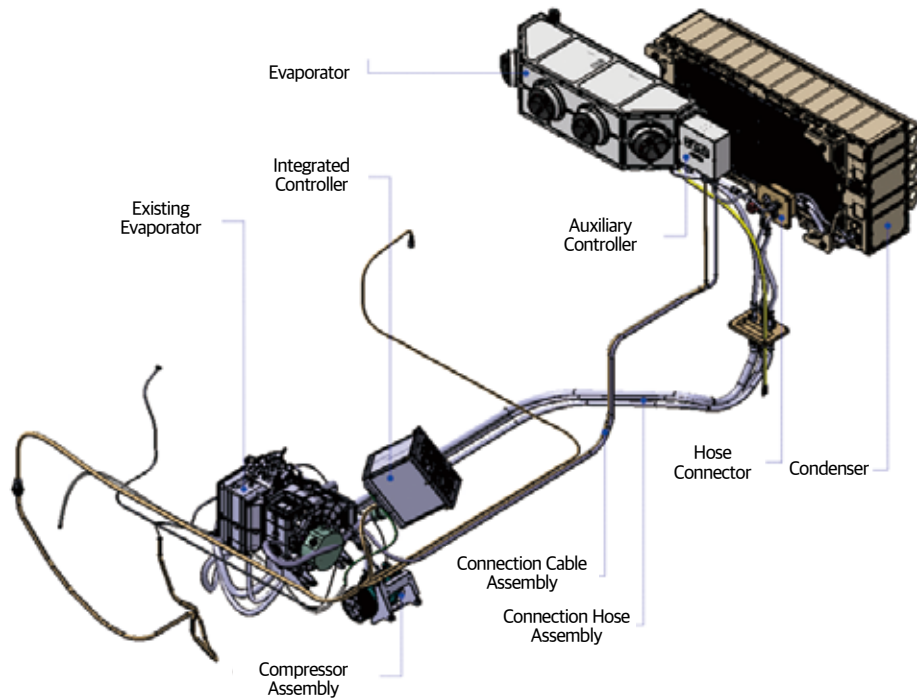
Model	CR-R405K
Capacity	450g
Type	Rotary Type Cryogenic Cooler
Rated Voltage	24V
Maximum Power Consumption	@20°C: ≤15 WDC
Control Power Consumption	@20°C: ≤7 WDC
Cooling Time	@20°C: ≤7Min
Cooling Temperature	82K±1K
MTTF	10,000hours
Environmental Conditions	MIL-STD-810

Prime Products

Sonar sensor, Cryogenic cooler, Precision Machining

YGT

Air Conditioning Assembly for Chunmoo Multiple Rocket Launcher



Specifications

Part Number	Product Name	Detailed Specification
UA20038002	Evaporator Assembly	<ul style="list-style-type: none"> • Dimensions : 882×323×304.7mm • Cooling Capacity : Over 3.2 kW • Airflow Performance: Max Airflow 400m³/hr+ • Weight : 22kg • Refrigerant : R-134a • Power : 28.0VDC±1.0 VDC
UA20038101	Condenser Assembly	<ul style="list-style-type: none"> • Dimensions : 1040×484×420.6mm • Refrigerant : R-134a • Coil Performance : Over 12,350 kcal/h • Weight : 33kg
UA20038201	Controller for Cooling Unit	<ul style="list-style-type: none"> • Dimensions : 180×196×86mm • Power : 28.0VDC±1.0 VDC • Airflow Selection : 1~4 levels • Weight : 2.5kg



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Product Description

The air conditioning system is assembled using parts such as the evaporator, condenser, and cooling system controller. It is installed in the vehicle and completed by connecting the compressor to the vehicle engine

Purpose

The air conditioning system is installed between the driver and passenger seats in the Chunmoo multiple rocket launcher. It is designed to maintain the performance of various electronic devices and improve the combat capabilities of the crew, even in harsh environments such as during the rainy season or in extremely hot weather.

Operational Characteristics

- Adjustable airflow direction control
- Wall-mounted evaporator
- Wall-mounted condenser

Export Performance

Year	Country	Product	Quantity	Export Amount (KRW)
2022	Saudi Arabia	Air Conditioning Assembly	20	720,000,000
2023	Saudi Arabia	Air Conditioning Assembly	18	648,000,000
2024	Saudi Arabia	Air Conditioning Assembly	18	648,000,000

Advantages

- Provides a comfortable environment for the crew
- SASO-2682 performance test standards applied, making it suitable for use in Middle Eastern countries

Plans to utilize proprietary technologies

- Secured technology for modifying and developing air conditioning systems for tropical climates, particularly for Middle Eastern countries
- Contributes to increased export revenue through the export of weapon systems equipped with heating and cooling systems
- Lays the groundwork for the development of heating and cooling systems for cold regions

eosystem

Monocular Night Vision Scope (NVS)



Product Description

A robust, compact, and lightweight monocular night vision scope

Specifications

Model	Monocular Night Vision Scope (NVS)
Size	116 x 70 x 47mm, Less than 345g (including battery)
Tube Type	18mm, US GEN III or European Equivalent Tube (Green and B/W Both)
Type	Monocular
Size, etc.	Detection performance over 300m

Purpose

- Monocular
- Primarily mounted on a ballistic helmet using a mount for night operations, it can also be worn around the neck using a neck strap for flexible use depending on the situation
- Additionally, it can be attached to personal firearms using a special Picatinny rail-type mount, allowing it to be used in conjunction with the firearm's sight

Operational Characteristics

- Compared to the currently deployed PVS-04K by the Korean military, this device offers equal or superior night detection performance. Although the battery has been reduced from two to one, resulting in shorter operational time, it is much lighter and more compact.



👤 HAN JUNG KYU

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🏠 www.eosystem.com

📍 Magokjungang14-ro, Gangseo-gu, Republic of Korea

Advantages

- Maintains night detection performance equivalent to or better than the global standard model PVS-14
- Outstanding price competitiveness, offering high-quality at a more affordable price

Plans to utilize proprietary technologies

- The company possesses the capability to develop and produce night vision scopes.
- Currently developing thermal imaging scopes and observation devices. Utilizing its production capabilities, the company can propose an Image Fusion Night Vision Scope that integrates image intensifier tubes and thermal imaging sensors.
- This fused night vision scope maximizes the advantages of both sensors, enabling soldiers to conduct night operations in any environment, thereby enhancing Night Fighting Capability.
- Additionally, as a digitalized device, it can incorporate functions such as battlefield situation sharing and navigation.

Export Performance

- NVS Export Performance (2010~2024)
 - Indonesian Ministry of Defense: 0,000 units
 - Saudi Arabian Ministry of Defense: 000 units
 - Colombian Ministry of Defense: 0,000 units
 - Ecuadorian Ministry of Defense: 00 units
 - Malaysian Ministry of Defense: 000 units

Prime Products

Night Vision Goggle(Monocular, Binocular), Laser Aiming Device, Dot Sight, Thermal Weapon Sight, Multi-function Observation Device-Hand Held, Fire Control System, RCWS EO/IR, Drone EO/IR Payload and Etc.

KOVICO

4x4 Wheeled Armored Vehicle (KMPV)



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 www.kovico.com
 118, Pyeongdongsandan 1beon-ro, Gwangsan-gu, Gwangju, Republic of Korea



Specifications

Size (L x W x H)	5,950 x 2,350 x 2,400 mm
Suspension	Independent suspension
Gross Weight	12,500 kg
Max Speed	110 km/h
Fording Depth	1.0 m
Gradient/Side Slope	60 % / 30 %
Ballistic Protection	STANAG 4569 Lv.2
Blast Protection	STANAG 4569 Lv. 2a (TNT 6kg)

- Integrated front ballistic glass provides a wide driving field of view
- Underbody armor panel offers protection against blasts of up to 6kg TNT (tested and certified by German IABG)
- Around View Monitoring System enhances convenience during driving and parking
- Equipped with CTIS (Central Tire Inflation System) for easy escape from rough terrain (e.g, snow, mud, sand)
- Independent suspension improves ride comfort during off-road driving, reducing fatigue for both the driver and passengers
- Capable of mounting and operating weapon systems such as RCWS (Remote Controlled Weapon System), turrets, and grenade/ gas launchers

Purpose

Troop transport, reconnaissance, anti-terror operations, VIP escort, etc.

Advantages

- Can be developed into various platforms based on KOVICO's self-developed multipurpose chassis
- Enhanced vehicle reliability through certifications and test reports from institutions like the Agency for Defense Development, Construction Equipment Parts Research Institute, and international testing agencies
- Equipped with ballistic protection of STANAG 4569 Level 2 using a single ballistic steel plate, with consistent protection levels for the engine compartment, glass, and vehicle body

Export Performance

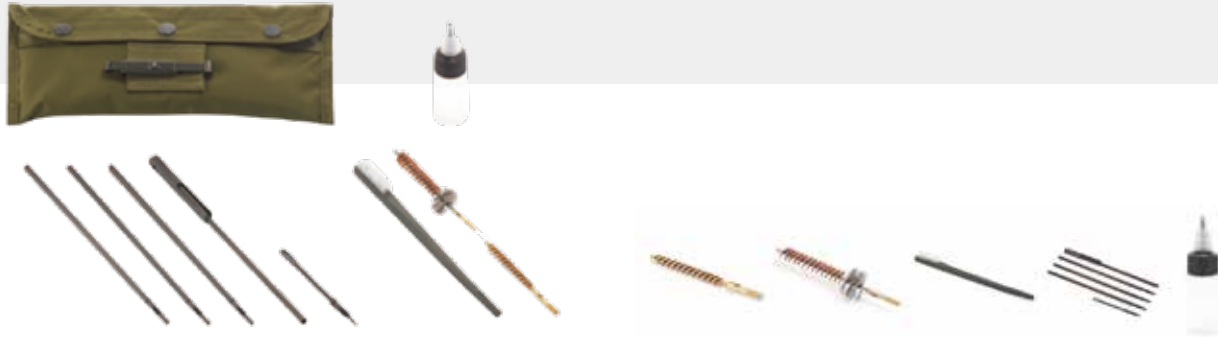
NO.	Year	Client	Item	Quantity
1	2022	South Korean Army	KMPV	3
2	2022	Indonesian National Police	KMPV	3
3	2023	Indonesian National Police	KMPV	17
Total				23

Prime Products

Military/commercial vehicle parts (cargo beds, cabins, van bodies, etc.), Special-purpose vehicles

TECHNO Y. SYSTEM Co., Ltd.

Cleaning Kit for 5.56mm rifle



Specifications

N.S.N.	1005-009031296	1005-009991435	1005-004946602	1005-00893994	1005-002425687
Product name	Brush, Cleaning Small arms	Brush, Cleaning Small arms	Brush, Cleaning Small arms	Rod, Cleaning Small arms	Bottle Assembly, CYL
Purpose	Bore brushes	Chamber brushes	Pipe cleaners for fast cleaning	Cleaning rod	Lubricant storage
Weight	8g	11g	10g	138g	10g
Size	83mm	100mm	178mm	Max 780mm	90mm

Operation features

1005-009031296	A tool for removing internal gunshot debris. Can be connected to the screw thread of the end of product and connect it to the deep part of the gun.
1005-009991435	A tool for removing debris in the chamber that loads the bullets. Can be connected to the screw thread of the end of product and connect it to the deep part of the gun.
1005-004946602	Double end Nylon brush for fast cleaning of body, neck, bore, receiver and chamber.
1005-00893994	Tools for wiping gun and chamber interior. It is used to remove debris and lubricate oil using cotton patches
1005-002425687	Lubricants for firearm maintenance can be stored and applied in small quantity for cleaning firearms.

Advantages





- Easy cleaning and removal of dirt and foreign matter by using cleaning kit
- Excellent effect to maintain firearm performance

TECHNO Y. SYSTEM Co., Ltd.

Cleaning Kit for 7.62mm rifle



 TECHNO Y. SYSTEM CO. LTD

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 Korea
 165-8, Daegeum-ro, Daeso-myeon, Eumsung-gun, Chungbuk, Republic of Korea

Specifications

N.S.N.	1005-005564174	1005-006903115	1005-007162920	1005-004946602	1005-002425687
Product name	Brush, Cleaning Small arms	Brush, Cleaning Small arms	Rod, Cleaning Small arms	Brush, Cleaning Small arms	Bottle Assembly, CYL
Purpose	Bore brushes	Chamber rod	Cleaning rod	Pipe cleaners for fast cleaning	Lubricant Storage
Weight	7g	19g	232g	10g	10g
Size	80mm	100mm	Max 665mm	Max 178mm	90mm

Operation features

1005-005564174	A tool for removing internal gunshot debris. Can be connected to the screw thread of the end of product and connect it to the deep part of the gun.
1005-006903115	A tool for removing debris in the chamber that loads the bullets. Can be connected to the screw thread of the end of product and connect it to the deep part of the gun.
1005-007162920	Tools for wiping gun and chamber interior. It is used to remove debris and lubricate oil using cotton patches.
1005-004946602	Double end Nylon brush for fast cleaning of body, neck, bore, receiver and chamber.
1005-002425687	Lubricants for firearm maintenance can be stored and applied in small quantity for cleaning firearms.

Advantages

- Easy cleaning and removal of dirt and foreign matter by using cleaning kit
- Excellent effect to maintain firearm performance

FIRSTEC

Automatic Fire/ Explosion Suppression System



Product Description

- Display every part's self diagnosis(BITE) and status information.
- Fire sensor: Uses an IR sensor to detect light and heat, and uses the fire identification algorithm to determine whether fire has broken out.
- Fire detection line : K TYPE Thermocouple is applied to detect fire with electrical power generated.

Purpose

Installed in the crew room/engine room for the combat vehicle, the system can automatically detect and promptly suppress fires and explosions caused by various factors such as impacts during start off, electrical accidents, enemy fire and the like, so that damages to crews and equipment can be minimized

Plans to utilize proprietary technologies

- Can customize the configuration and functions based on user requests. (can expand the interface based on the system) Can save up to 10 operation status history data sets.
- Fire sensor malfunction prevention function : Sunlight, hand lamp, fluorescent lamp, incandescent lamp, headlight, flash, electrical arc, cigarette fire
- Can select different fire extinguishing chemicals upon user requests.(Halon1301, Novec1230, FM200)
- Quality assurance(AS)

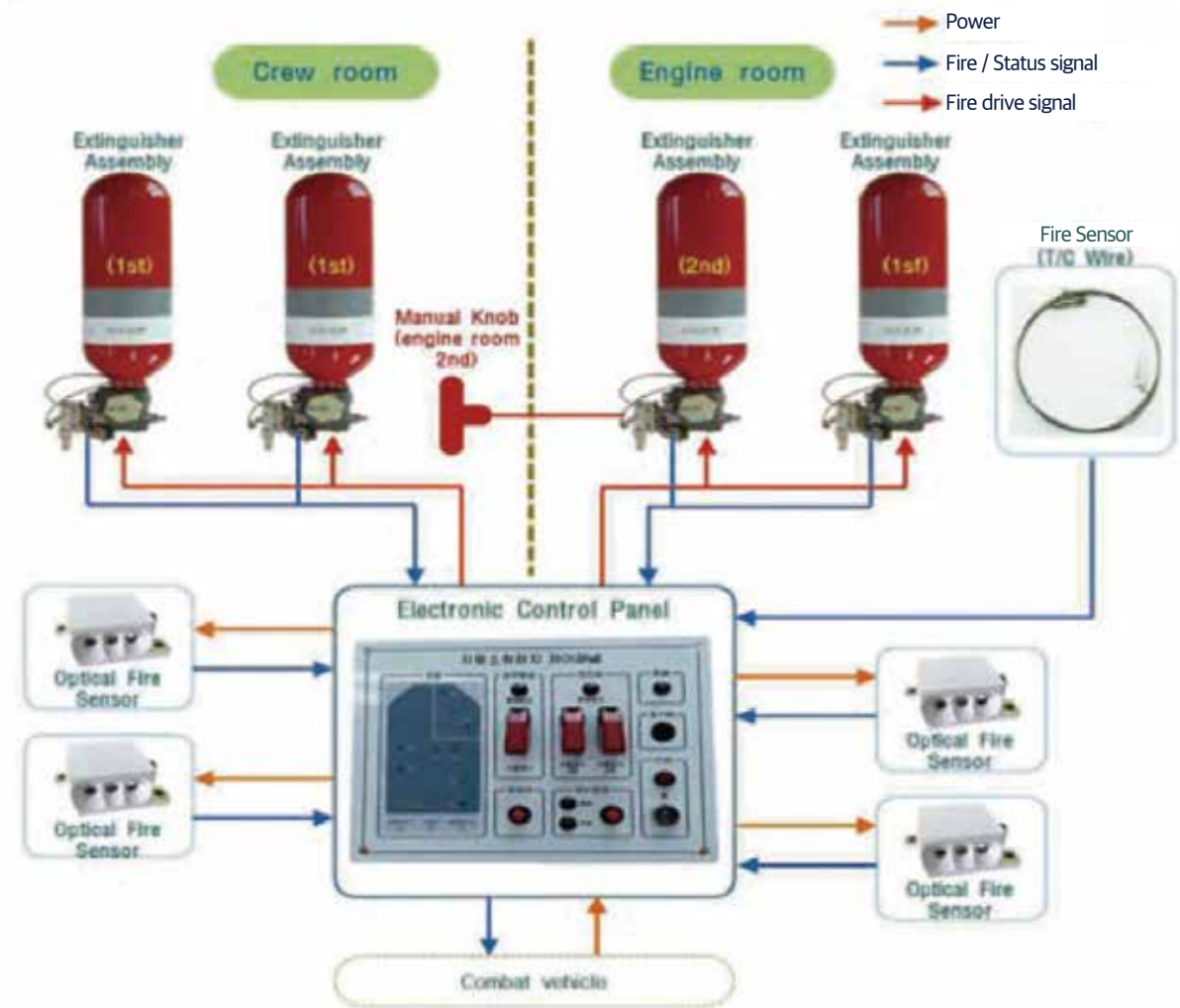
Prime Products

Various electric devices and panels etc. Driving device/ guided control device/shooting control device/wiring of guided weapon etc.

Specifications

Components	Electronic Control Panel	Optical Fire Sensor	Extinguisher Assembly	Fire Sensor (T/C Wire)
Size(mm)	270×210×156	88.5×61.0×37.7	145.6×136.0×497.6	3810±50
Weight	Max. 4 kg	Max. 0.5kg	Max. 11.0 kg	Max. 0.5kg
Power	24±6VDC	16.5±3VDC	24±6VDC(10 ~ 15A)	-
Operating Temperature	-33 ~ 71°C			-
Storage Temperature	-55 ~ 85°C, 71°C(Extinguisher Assembly)			-
Environment Condition	MIL-STD-810G, MIL-STD-461F			
T/C	-			K type

Configuration and operation systems





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Certified Products

Electronic control panel

Purpose

- Integrated control and fire signal/fire extinguishing signals for every part in the auto fire extinguisher.
- Installed in the crew room for the combat vehicle.

Operation features

- Display every part's self diagnosis(BITE) and status information.
- Detects fire signals from the fire sensor and the fire detection line.
- Operates fire extinguisher assembly to control the spray of fire extinguishing powder.

Advantages

- Configuration and functions can be adjusted based on customer requests.
- Can check operation of parts in real time.
- Can save up to max 10 operation status data sets.
- Main power supply shut-down delay : 0.5/1/2/3hour(select)

Fire extinguisher assembly

Purpose

- Spray fire extinguishing agent through automatic/manual operation
- Placement in crew/engine room of combat vehicles

Operation features

- 90% spraying of the digestive medicine within 190ms by automatic (electrical signal)/manual (lever operated)
- Manual firepower: 6.8 to 11.4 kg Force

Advantages

- Choose digestive medicine based on user needs (Halon1301, Novec1230, FM200)
- Self-diagnosis (BITE) function: pressure check

Fire detector

Purpose

- Detects light and heat to identify fire and provide fire signals.
- Installed in the crew/engine room for the combat vehicle.

Operation features

- Uses an IR sensor to detect light and heat; uses fire
- Identification algorithm to determine whether fire breaks out.

Advantages

- Dual Spectrum Operation : Detects heat and light at the same time.
- Malfunction prevention function : Sunlight, hand lamp, fluorescent light, incandescent light, headlight, flash, electrical arc, cigarette fire
- Self diagnosis(BITE) function : Windows BIT Function
- Detection distance : 1,200±300mm
- Detection angle(FOV) : 90°cone

Fire detection line

Purpose

- Detect fire with the electrical power generated by the rising temperature.
- Installed in the engine room for combat vehicles.

Operation features

- K TYPE Thermocouple applied to detect fire with electrical power.
- Standard fire temperature(260±3°C) : 8.85~10.25mV

Advantages

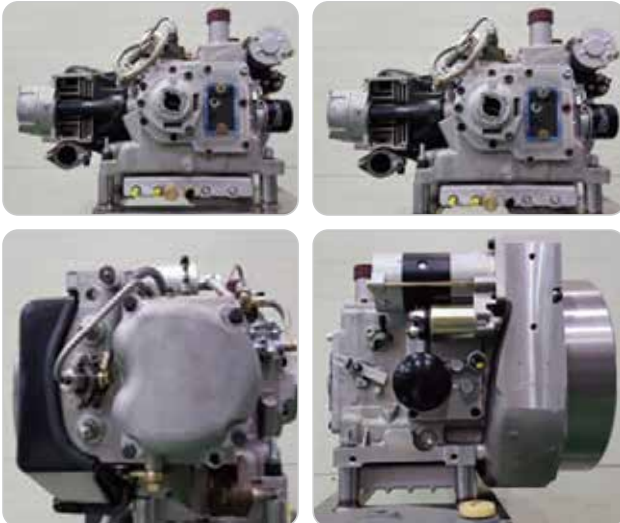
- Can be extended on user requests.
- Self diagnosis(BITE) function : Checks for cut wires.
- Even if partially cut, it can still detect fire.

Farymann & Tzen Co., Ltd.

Auxiliary Engine



Air cooled diesel engine



APU in actual operation



Specifications

Size	435×590×366mm
Weight	90 kg
Form	Diesel engine, horizontal, single cylinder (4-cycle)
Output	10kW
Max. Torque	33 Nm × 2,600rpm

Functions & Features

- Charging battery of main engine of tracked vehicle(including tank, self-propelled artillery and armored vehicle) and wheeled vehicle
- Core component supplying power to auxiliary power unit used to facilitate the operation of various kinds of battlefield system in case of the suspension of main engine and reducing fuel consumption.

Advantages

- Manual start-up system using automatic start-up or crank handle (auto and manual operation selectable)
- Minimization of space for mounting by horizontal driving method

No.	Component	No.	Component
1	Oil fan assembly	6	Fly wheel assembly
2	Exhaust manifold	7	Oil filter
3	Cylinder	8	Oil inlet
4	Crank case assembly	9	Fuel injection pump
5	Starter	10	Fuel filter



LEE SANG SEOK

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Changwon, Gyeongsangnam-do, Republic of Korea

Proprietary technologies and products

- APU system optimization/placement technologies
- APU control device HW / SW application and applied technologies
- Engine & APU manufacturing/test evaluation technologies

Specifications

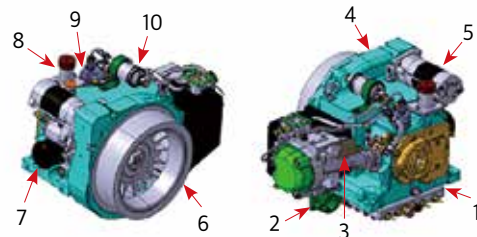
Classification	Description
Type	Horizontal, 1cylinder(4stroke)
Piston displacement	708cc
Rated output(ICFN-ISO)	10kW(13.5 HP)
Torque	Min. 33.0 Nm @2,600rpm
Max. speed(no load)	3,200rpm
Fuel consumption	Max. 235g/kwh
Weight	90kg(with oil)
Dimensions(L×W×H)	435 × 590 × 366mm

- Used as a sub power supply(APU) engine for self-propelled artillery, combat tank and armored vehicles for onground equipment.



Plans to utilize proprietary technologies

The air-cooled diesel 4-stroke horizontal single-cylinder engine is a small engine that exhibits extremely high output for its size. It is used in the auxiliary power supply for self-propelled artillery, tanks and armored vehicles. The engine is shipped to domestic and overseas customers. The engine manufactured for APUs can also be used for various vehicles as a high-power compact diesel engine. Currently, only Farymann & Tzen is producing the engine worldwide.





**DQ CERTIFIED
PRODUCTS**

03



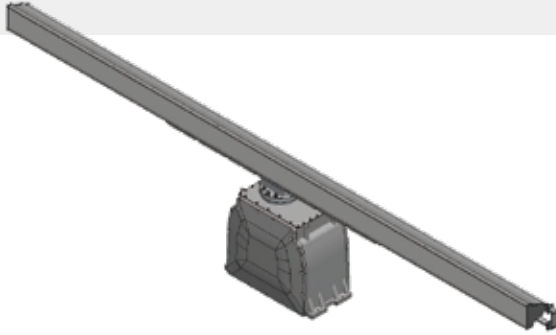
At Sea

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STX Engine

Coastal Surveillance Radar (GPS-800K)

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 Gyeonggi-do, Korea



Product Description

Installed in coastal areas to detect illegal immigration or intruding vessels, and to perform maritime traffic control tasks

Specifications

Model	GPS-800K
Frequency	X-band (8 channels, 24 frequencies)
Transmitter	SSPA, over 800W
Antenna Rotation Speed	Supports 10 or 20 RPM
Maximum Range	59 NM
Range Resolution	20m or less
Azimuth Resolution	2° or less
Tracking	Supports tracking of up to 1,000 targets (automatic/manual)

Purpose

- Coastal Surveillance: Detection and tracking of illegal immigration vessels and intruding ships such as high-speed boats and small, slow vessels
- Maritime Traffic Control: Vessel control in harbors, ports, and narrow waterways

Operational Characteristics

- Supports remote and unmanned operation through control and status information integration via a network
- Capable of swift target identification and response by integrating ship information from other systems such as AIS and V-PASS.

Advantages

- Improved detection performance by applying High-Power Semiconductor Power Amplifiers (SSPA)
- Achieves high range resolution across the entire detection area by applying pulse compression signal processing technology
- Enhanced target identification through Clutter Suppression functions (reducing interference, ghost targets, etc.)
- Supports remote and unmanned operation through Network-Based Data Integration

Operational Characteristics

- Integrated with ship GPS, course, and speed sensors, it can be used as a navigation radar
- Capable of integrating images and target information from multiple radars to build a comprehensive surveillance system

Prime Products

Marine Engine, Military Engine, Radar, Sonar



Bumhan Industries

Medium Pressure Air Compressor (LT-104H)



Product Description

A two-stage compression, reciprocating piston-type, single-acting, air-cooled compressor with double elastic support. It can compress air up to a maximum pressure of 40 kgf/cm² with a capacity of 24.5 m³/h. The compressed air is used as a power source for starting naval ships.

Specifications

Model	LT-104H
Size	Approx. 870 x 700 x 811
Capacity	24.5M3/H (Maximum Pressure: 40 kgf/cm ²)
Type	Two-stage, air-cooled, V-type compressor
Size, etc.	Weight Approx. 270 kg

Purpose

Supplies high-pressure air to start propulsion diesel engines and diesel generators

Operational Characteristics

- Two-stage compression, reciprocating piston, single-acting, double elastic support
- Safety monitoring and alarm devices installed for each compression stage
- Automatic start and stop system



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Advantages

- Compact design minimizes installation space
- Easy to install and maintain
- Longer maintenance intervals reduce operational costs
- Increased durability against shock and vibration
- Reduced maintenance and repair costs
- Operable in high-temperature environments

Plans to utilize proprietary technologies

Based on its current technology and experience, Bumhan Industries continues to develop and supply domesticized low, medium, and high-pressure compressors for the "Korean Navy's new projects." Additionally, Bumhan provides fast and continuous after-sales service and non-discontinued parts support compared to global competitors, contributing to the operation of naval vessels.

Export Performance

- No export record
- Currently supplying the Korean Navy continuously through HD Hyundai Heavy Industries, Hanwha Ocean, SK Oceanplant, Heavy Industries, and others.)

Prime Products

M.P Air Compressor, H.P Air Compressor

Samyung ENC Co., Ltd.

HF communications system



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 69, Sangni-ro, Yeongdo-gu, Busan, Republic of Korea



Product Description

It is a communications networks system which can be interfaced with ICS, M-3000KN, TADL-A(LINK-11), security devices, and signal converters.

Purpose

It is an integrated transceiver to collect and exchange various information as well as deliver commands through MF/HF band communications networks.

Specifications

Frequency	2.0-29.9999MHz (TX), / 10kHz-9.9999MHz (RX)
Operating mode	USB, LSB, ISB, RATT, CW, AM, DATA
Maximum output 1kW	1kW (transmitter), / 4kW (linear power amplifier)
Function	Built-In Test Equipment (BITE), integrated remote transceiver

Advantages

- It can communicate simultaneously over four channels with one broadband TX antenna losing output power.
- For military operations, it can be configured into 1, 4, or 8 channels.

Prime Products

HF communications system, communication equipment, navigation equipment, fishing equipment, and boat equipment

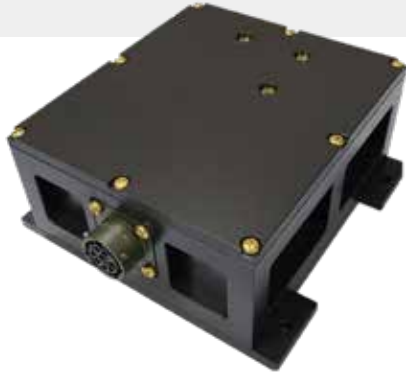


SENSORPIA Co., Ltd.

Low drift 3-Axis Flux-gate Magnetometer



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 Yuseong-daero 1596-64, Yuseong-Gu, Daejeon City
 34054, Korea



Specifications

Measuring axis	3-Axis
Input-voltage	5V
Power consumption	<2W
Communication interface	RS-422
Measuring range	±100μT
Linearity	±0.01%
Orthogonality error	<±0.2°
Useful frequency range	DC~10Hz
Low power on drift	<2 nT during 100s
Dimension (mm)	129.5 X 125 X 55mm
Total mass (g)	< 1000g
Coating	Black anodizing
Connector	MS3112E12-8S

Plans to utilize proprietary technologies

- Sensorpia manufactures magnetometers with lower power consumption and noise values compared to existing models
- Through precise orthogonality correction technology, the magnetometer measures the total field with high accuracy

Product Description

The 3-axis magnetometer is a device that measures changes in the magnetic field

- It can detect changes in the movement of objects with magnetic properties
- Accurate calibration of the x, y, and z axes is essential for 3-axis magnetometers, and the product is manufactured with orthogonality calibration (capable of measuring magnetic field strength)
- The magnetometer can detect magnetic field changes even underwater, as magnetic fields are not significantly affected by seawater
- Sensorpia manufactures magnetometers with lower power consumption and noise values compared to existing models

Purpose

A high-precision 3-axis magnetometer capable of detecting changes of ±10 nT, even with unstable orientation. It excels at measuring total field regardless of the magnetometer's orientation

Advantages

3-Axis Low Power Magnetometer (MS-13)

- Detects objects with magnetic properties
- Operates independently of the device's orientation
- Excellent orthogonality and linearity among the 3 axes
- Superior for measuring total field
- Low drift characteristics when powered

SENSORPIA Co., Ltd.

Low Noise 3-Axis Flux-gate Magnetometer



Product Description

The 3-axis magnetometer is a device that measures changes in the magnetic field

- It can detect changes in the movement of objects with magnetic properties
- Accurate calibration of the x, y, and z axes is essential for the 3-axis magnetometer, and the product is manufactured with orthogonality calibration (capable of measuring magnetic field strength)
- The magnetometer can detect magnetic field changes even underwater, as magnetic fields are not significantly affected by seawater
- Sensorpia manufactures magnetometers with lower power consumption and noise values compared to existing models

Specifications

Measuring axis	3-Axis
Input-voltage	12V
Power consumption	< 1.7W
Communication interface	RS-422
Measuring range	$\pm 64\mu\text{T}$
Linearity	$\pm 0.02\%$
Orthogonality error	$< \pm 0.5^\circ$
Useful frequency range	DC~3Hz
Noise level	0.2n Tpp
Dimension (mm)	179(Length) X 50 (Dia.)mm
Total mass (g)	< 550g
Waterproofing	11 \pm 1bar

Purpose

This is a magnetometer with extremely low noise, high sensitivity, and long-term stability, making it excellent for detecting ferromagnetic objects. It also features waterproofing, allowing for use in underwater environments

Advantages

- Excellent magnetic field measurement accuracy
- Detects objects with magnetic properties
- Usable in underwater environments
- Extremely low noise and drift characteristics

Plans to utilize proprietary technologies

- Sensorpia manufactures magnetometers with lower power consumption and lower noise values compared to existing models
- Through precise orthogonality correction technology, it measures the total field with high accuracy

Company introduction

Sensorpia was established in 2006 and specializes in the production of magnetic sensors and equipment. With over 30 years of accumulated technology in the field of magnetism, the company develops and manufactures products. The main products include 3-axis magnetometers, magnetic torquer, and transformers used in satellites and the defense sector.

SONARTECH Co., Ltd.

Underwater Search Sonar



Towed Body, Sonar for Underwater Detection

Specifications

Equipment Name	Towed Body, Sonar for Underwater Detection
Ultrasonic Beams	5 beams(12 elements) per side
Frequency	455kHz ±10%
Transducer Horizontal /Vertical Beam	Horizontal Resolution: 0.25° Vertical Resolution: 40°
Search Width / Towing Speed	100 ~ 300m(swath)/2 ~ 15 knots
Maximum Operating Depth	Up to 400m
Maximum Image Resolution	3.5 cm (based on sound speed of 1500 m/s)
Equipped with a loss-prevention safety recovery device	First : Plastic (acetal) safety pin (500kg) Second : Detachable O-ring tail fin Third : Position Marker Buoy System Fourth : Acoustic Transponder (Pinger, 37kHz)
Body Length/Diameter	1,850mm(L) / 168mm(D)
Body Material	SUS 316
Operating Power	110~240 VDC / Up to 0.3A
Weight	Max 85kg (in air) ± 10%
Additional Sensors	Pitch/Roll/Heading Sensors, Altimeter, Depth Gauge, Internal Temperature and Humidity Sensor
Depressor	Attachable
Equipment Name	Signal Processor, Sonar Data Processing
GPS Input	NMEA0183
Input Power	220VAC/60Hz(Fuse 5 A, 250V)
Communication Method	100 Base-T Ethernet LAN
Data Reception/Recovery	Multi-channel reception (DEMUX) / Phase-Locked Loop (PLL)
Data Format	NRZI & 4B/5B Code
Dimensions / Weight	430 × 460 × 170mm / 14 kg

Product Description

- The underwater search sonar is used to locate objects positioned underwater, particularly on the seafloor
- The system is operated while a vessel tows the sonar, and it displays images of the seafloor on the screen of the image processing unit
- The images are similar to the actual shapes of underwater objects, making them easy to identify

Purpose

In Korea, which is surrounded by water on three sides, this equipment is highly effective in detecting the seafloor's topography and underwater objects during naval operations

Operational Characteristics

- Classified as a surveillance reconnaissance weapon system
- During wartime, it can be installed on mobilized ships to conduct mine countermeasure operations in critical sea routes (Q-Route) and strategic sea lines of communication (SLOC) near major ports and harbors
- Equipped with additional sensors such as pitch, roll, heading, and altitude for real-time equipment status monitoring
- Identified underwater objects are displayed on an electronic nautical chart through a mapping program



Signal Processor, Sonar for Underwater Detection



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Advantages

- Contains additional sensors for pitch, roll, heading, internal temperature, and altitude, enabling real-time environmental monitoring
- Can acquire data at depths greater than 150 meters
- Equipped with three safety features to prevent loss of the towed body, including a safety pin, detachable tail wing, and pinger (acoustic transponder)



Plans to utilize proprietary technologies

Expanding into the Global Defense Market

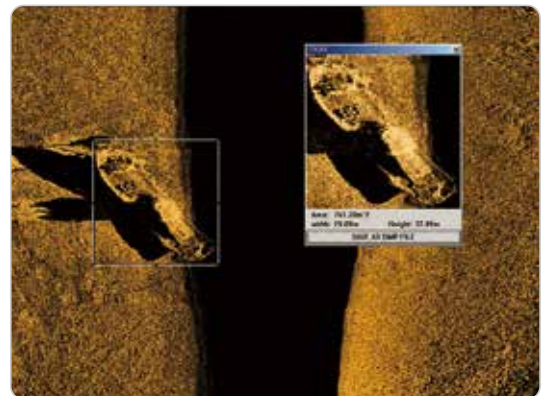
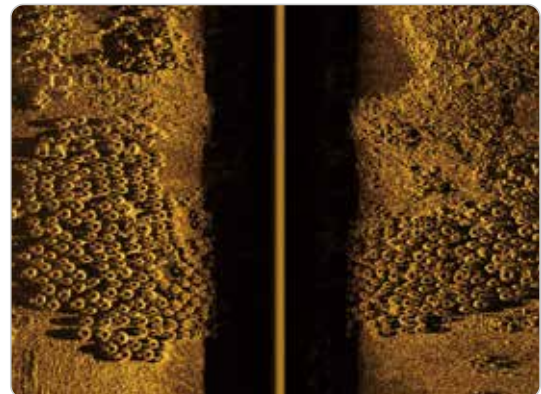
- Competes globally by offering products with world-class Synthetic Aperture Sonar (SAS) technology, providing technological competitiveness and relative affordability, enabling market penetration

Anticipated Benefits when Applying Certified Products

- Proposes technology transfer to countries with limited development capabilities, encouraging preferential purchases by meeting the needs of those markets
- Plans to establish a global after-sales network to provide long-term reliability and one-stop service

Prime Products

Side Scan Sonar, Echo Sounder, Underwater Environment Measuring Device, Sub-bottom Profiler etc.



EHWA Technologies Information Co., Ltd.

Frequency converter



이화전기
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 Republic of Korea

Product Description

Frequency converter is operated in parallel or single configuration and provides 400Hz power to loads such as naval weapon system, navigation system, and aircraft maintenance / test equipment through power distribution panel (IC SWBD) installed in front of load terminal.

Specifications

Frequency	400Hz
Operating mode	Single/parallel operation
Maximum output	30kW
Power	Input : 3PH 440V 60Hz Output : 3PH 115V 400Hz
Dimensions	W 610mm X D 705mm X H 1777mm

Purpose

It, whether in the land- or sea based configuration, provides 400 Hz power to naval weapon systems and aircraft during the time of war or peace.

Advantages

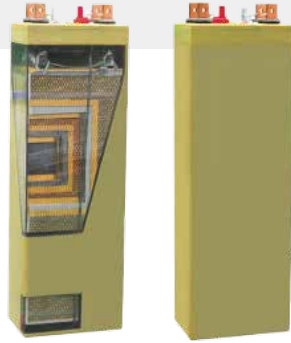
- Parallel operation can secure high reliability.
- It protects equipment from shock and vibration caused when operating naval ships.
- It provides long-term support for naval ship's life expectancy.

Prime Products

Frequency converter, UPS, and battery charger, Rectifier

Korea Special Battery Co., Ltd.

209-Class Jangbogo-I Submarine Battery (45PS13K)



Product Description

- Unlike typical lead-acid batteries, this specialized submarine battery features an optimized design with high energy density, large capacity, and excellent discharge performance, ensuring high reliability
- The submarine battery employs advanced manufacturing processes and technologies, such as CSM-coated negative grids and low-antimony pressure-cast tubular positive grids, providing superior corrosion resistance and long operational life

Specifications

Model	45PS13K
Size	L290 × W450 × H1,336 × TH1,421mm
Weight	517kg±2%
Operating Temperature	Up to 5 hours at 45°C, 55°C
Optimal Temperature	30°C
Shock Test	BV 043/1973

Purpose

Provides propulsion and general power supply for the submarine while operating underwater



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- 780, Ungnam-ro, Seongsan-gu, Changwon-si, Gyeongsangnam-do, Republic of Korea

Operational Characteristics

- Easy maintenance
- Equipped with systems to prevent overheating and electrolyte stratification
- Minimizes hydrogen gas generation

Advantages

Submarine batteries, unlike typical lead-acid batteries, feature an optimized design with high energy density, large capacity, and excellent discharge performance, ensuring high reliability. Additionally, these batteries employ advanced manufacturing methods and technologies that provide excellent corrosion resistance, high and low-rate discharge performance, and long life

Plans to utilize proprietary technologies

- The 209-class submarines are in operation worldwide, and this battery is produced by select countries, including Korea, Germany, and Greece
- Supplying batteries for the Republic of Korea Navy's submarines, with exports to Indonesian submarines. Actively responding to overseas battery replacement demands

Prime Products

Submarine Battery/Torpedo Battery/Battery Monitoring System /Energy Storage Device



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04

In Aviation

YOUNGPOONG ELECTRONICS Co., Ltd.	Integrated Standby Instrument	76
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Korea Aerospace Industries, LTD.	FA-50 Multi-Role Fighter	79

YOUNGPOONG ELECTRONICS Co., Ltd.

Integrated Standby Instrument (ISI)



Product Description

- ISI is a standby flight display unit for commercial and military rotary wing or fixed wing platforms. Based on the highly reliable MEMS Inertial Sensor, it provides the best solution for the preliminary flight information - aircraft attitude (angle, velocity, acceleration) and air data (altitude, wind velocity, vertical velocity), slip, and internal fault data information
- ISI offers 3ATI displays to replace 2 or 3 electromechanical standby instrument for attitude, altitude and wind velocity with 1 display.
- It integrates high reliability MEMS sensors (gyro and accelerometer), 3-axis magnetometer, etc. all into a compact and robust environmentally sealed structure (housing), and it is possible to use an external 3-axis magnetometer interface.

KEY FEATURE

- Standby Flight Instrument
- High Accuracy of Flight Information
- Low power Consumption
- High Resolution

Prime Products

Servo controller & Driving controller
 Rocket Canard Controller & Fin Drive Unit
 Power Distribution Unit
 Integrated Standby Instrument



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Specifications

Operating Power	22 ~ 29 VDC
Power Consumption	Max 26W @ 12~29 VDC (MIL-STD-704F)
Yaw Angle Accuracy	1.0°rms (Magnetic)
Attitude & Air Data Range	Roll : ±180°, Pitch : ±90° Accuracy: < 0.5 Pressure Altitude, Air Velocity Accuracy SAE AS8002 compatible
Angular Velocity Range	Roll, Pitch, Yaw ±450°/sec In-Run Bias Stability 6.25°/hr, 1 Initial Bias Error ±0.2°/sec
Acceleration Input Range	Input Range ±18g In-Run Bias Stability ±1mg Initial Bias Error ±16mg
Interface	Discrete, RS-232, ARINC429
Display Spec	Composition : AMLCD, NVIS Knob, Bezel Function : Auto Luminance Resolution : 480 x 480, RGB Size : 2.4" x 2.4" (3ATI)
Size	80.64(W) x 229.33(D) x 80.64(H)mm
Weight	1.611kg (3.55lbs)
Environmental Standards	MIL-STD-810G RTCA/DO-160G section 22, A3C3 RTCA/DO-160G section 20 HIRF
EMI	MIL-STD-461F

Application & Mounted Location

- Military Rotorcraft
 - KUH(Korea Utility Helicopter)
 - LAH(Light Armed Helicopter)
- Military fixed-wing aircraft
 - kf-21(Planned)



FINE PRECISION IND.,LTD.

Windshield Wiper Assembly for Aircraft



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 62, Dasan-ro 175beon-gil, Saha-gu, Busan-city, Republic of Korea



Product Description

The windshield wiper assembly consists of 9 components and is designed to remove contaminants such as rainwater, salt deposits, and surface stains from the windshield caused by seawater, ensuring clear visibility for the pilot

Purpose

This system is used to clean the windshield of aircraft by spraying cleaning fluid and activating the wiper to remove contaminants such as rainwater and salt stains that accumulate on the surface during rainfall or exposure to seawater

Operational Characteristics

- Weight (1set) : MAX 9.5 Kg
- Motor : BLDC motor, 11A Max / Includes sensors for stop, overload, and temperature
- Wiper Converter Assembly: Adjustable angle and gear ratio with precise gearbox for minimal backlash ($\pm 1^\circ$), capable of 30 years of operation without lubrication
- Blade Set: 3-stage design for excellent adhesion to the curved windshield surface
- Arm: 3-stage coating for corrosion resistance, strong materials, adjustable length

- Passed environmental and electromagnetic compatibility tests (MIL-STD-810F)
- Meets the performance requirements of the Defense Agency for Technology and Quality and KAI
- Passed durability test (1000 hours)

Advantages

It is a highly engineered product that integrates electrical, electronic, mechanical, and hydraulic systems. It generates power through an electric motor, controls speed, changes power via the converter assembly and ensures structural safety for external installation on aircraft systems. It is designed to remove contaminants from the windshield surface smoothly while considering friction, with optimized cleaning fluid spraying and usage capacity

Plans to utilize proprietary technologies

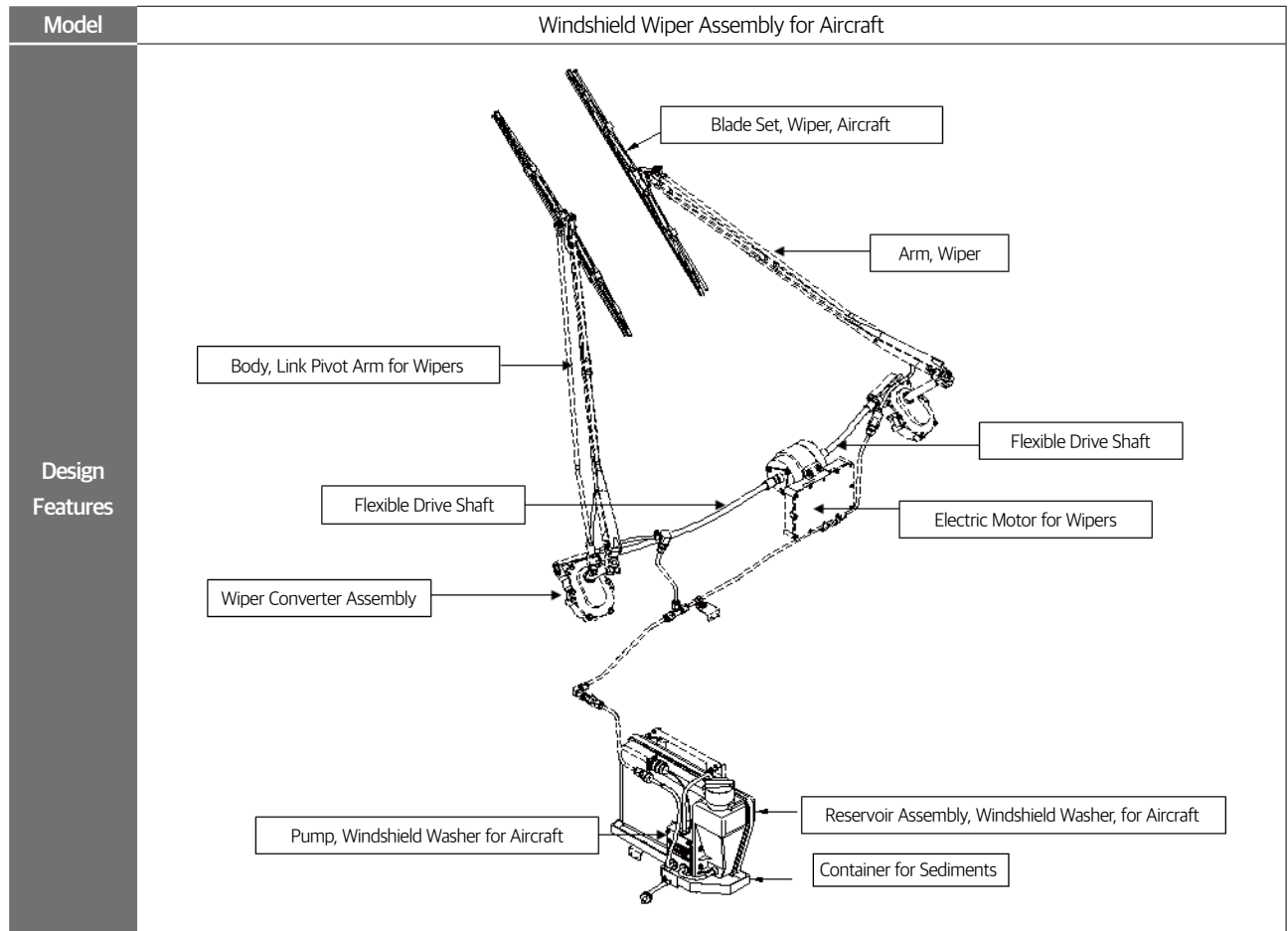
The windshield washer assembly for aircraft can be applied to other models and equipment using the same mechanism

Prime Products

WINDSHIELD WASHER ASSEMBLY, AIRCRAFT



Specifications



Korea Aerospace Industries, LTD.

FA-50 Multi-Role Fighter



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 www.koreaaero.com
 78, Gongdan 1-ro, Sanam-myeon, Sacheon-si,
 Gyeongsangnam-do, Republic of Korea



Advantages

- The FA-50 is an upgraded version of the T-50 advanced trainer, modified into a multi-role fighter, and has proven its superior maneuverability and tactical value in combat operations
- The cockpit is ergonomically designed with smart color multifunction displays and ejection seats to ensure pilot safety
- Equipped with advanced avionics, including a mission computer for integrated management of avionics equipment and GPS navigation systems for real-time position information
- Fly-by-wire digital flight control systems ensure flight safety
- Powered by GE's highly reliable F404-102 turbofan engine, the FA-50 is capable of supersonic flight, thanks to digital engine control technology

Export Performance

- July 2021 - November 2023: Thailand T-50TH (3rd batch), 2 units
- December 2021 - October 2024: Indonesia T-50i (2nd batch), 6 units
- September 2022 - September 2028: Poland FA-50PL, 48 units
- February 2023 - August 2029: Malaysia FA-50M, 18 units

Prime Products

KT-1, T-50, FA-50, KUH, LAH

Specifications

Model	FA-50
Size	Length 13.14m, Wingspan 9.45m, Height 4.81m
Maximum Takeoff Weight	12,383kg
Engine Thrust	78.7kn
Thrust-to-Weight Ratio	0.95
Maximum Speed	M 1.5
G-Limits	-3/+8g
Service Ceiling	16.7km
Maximum Rate of Climb	11.3km/min

Purpose

The FA-50 performs a variety of missions, including conventional bombing as well as air-to-air and precision air-to-ground strike missions

- Main Armaments
 - Air-to-Air : AIM-9L Sidewinder, AIM-9N/P Sidewinder
 - Air-to-Ground : GBU-38/B JDAM, GBU-12 Paveway II, BDU-33D/B (Under SUU-20), MK-82 500-LB LDGP, AGM-65 A/B/D/G Maverick Missile, Advanced Targeting Pod



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